



DORDT COLLEGE

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## Dordt College 1987-88 Catalog

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# 1987-88 CATALOG



## DORDT COLLEGE







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# DORDT COLLEGE — 1987-1988

## THE AIMS

Dordt College is controlled by a society whose members desire higher education which is in harmony with the principles of the Bible.

The constituents of Dordt College believe that the Bible is God's infallibly and authoritatively inspired Word, the only rule for faith and life. They are bound in their interpretation of the Bible by **The Belgic Confession**, **The Heidelberg Catechism**, and **The Canons of Dort**—confessions arising out of a Reformed world-view, which acknowledges the sovereignty of God and seeks seriously to apply biblical principles everywhere.

All education at Dordt College must be in conformity with the Christian faith as expressed in the Reformed Confessions. Therefore, under the supervision of the Board of Trustees, the faculty has set forth and seeks to implement a Statement of Purpose which describes the implications of the Reformed faith for a Christian educational philosophy. This statement, entitled **The Educational Task of Dordt College**, makes clear that the college is to provide "serviceable insight," that is, insight which prepares for service in the Kingdom of Jesus Christ. As a Christian college, Dordt

aims to train Kingdom citizens aware of the demands of the cultural mandate, equipped to take their place and carry out their tasks within the community of believers, able to discern the spiritual direction of our civilization, and prepared to advance, in loving service, the claims of Christ over all areas of life. (p. 10)

Dordt College seeks not only to prepare its students for future service, but desires also to reflect in all campus activity the dynamics of the Kingdom life.

## THE HISTORY

Dordt College had its beginning in 1937 with the educational leadership of the Christian Reformed Churches in the Midwest. At that time, proposals and recommendations concerning the possible establishment of a Christian college were circulated among the churches of the area. World War II delayed further planning. However, after the war, the movement gained new impetus due to the critical shortage of qualified teachers for midwest Christian schools.

The College was organized in 1953 as the Midwest Christian Junior College. Under this name, instruction began in September, 1955. In 1956, the name of the College was changed to Dordt College.

The Dordt College Executive Board at its September, 1959 meeting appointed a committee to study the possibility of having Dordt become a four-year college. After extensive study, a society meeting was held on October 16, 1962. At this meeting approval was given to the addition of the junior and senior years. In September, 1963, the junior class was added, and in 1965 the first class of students received the A.B. degree.



# ACCREDITATION

Dordt College is accredited by the North Central Association of Colleges and Secondary Schools as a four-year bachelor degree granting institution.

The Iowa Department of Public Instruction has approved Dordt's program of teacher education. Graduates of the teacher education program receive the Iowa Professional Certificate which is valid for a period of ten years.

The college is also approved to train veterans under Public Law 550, war orphans under Public Law 634, and students from foreign countries.

# THE CAMPUS

## Location

The Dordt College campus is located in Sioux Center, Iowa, a prosperous, rapidly growing community in Northwest Iowa. Recreational facilities available to students include the Sandy Hollow nine-hole golf course and swimming area, parks, a football-track stadium, and an indoor swimming pool adjacent to the Dordt campus. Sioux Center is situated on Highway 75, forty-five miles northeast of Sioux City, Iowa and fifty-five miles southeast of Sioux Falls, South Dakota.

## Buildings

**The Classroom Building** — The Classroom Building combines both the old and new in classroom facilities. The older section contains several classrooms as well as the business office, business machine labs, a media center, Dordt Press, language lab, and New World Theater.

A newer section of the building features a 200-seat lecture hall and seven classrooms. The building also contains Public Relations', College Advancement's, and College President's offices.

The newest section is Dordt's computer center. This building contains several classrooms, faculty offices, and over 60 of the college's computer terminals.

**Chapel-Music Center** — The chapel-music center was completed in 1979. It consists of two sections, a music building and a chapel-auditorium. The music building houses rehearsal rooms and studios for all of the musical organizations on campus, as well as vocal and instrumental practice rooms and music faculty offices. The chapel-auditorium, which is used for chapel services, concerts, organ recitals, and other events, seats approximately 1500 people and contains a large, beautiful Casavant pipe organ.

**The Art-Administration Building** — The Art-Administration Building was built in 1962. The Art area houses facilities for the art program. The building contains two large studios and offices for the art department. Other offices include those for the academic administrative staff. These offices accommodate the Vice-President of Academic Affairs, the Registrar, the Director of Admissions and Financial Aid, the Admissions Counselors for the college, and offices for academic advising and counseling.

**The Library** — The library, completed in the fall of 1966 with an addition completed in 1978, provides space for over 120,000 volumes, seating for 350 students, librarian's office, reference section, periodicals section including microforms, learning resources center, reading areas, and conference rooms. The building also houses a Dutch archives collection. A terminal connects the library with OCLC computer center, Columbus, Ohio, and is used for cataloging of material and for interlibrary loans.

**The Natural Sciences Building** — The building, completed in of 1968 with additions in 1978 and 1980, contains three biology labs, three chemistry labs, two physics labs, agriculture department facilities, electron microscope laboratory, three research labs, facilities for study and research of live plants and animals, a darkroom, herbarium, a shop, ten faculty offices, three lecture rooms, a greenhouse, and nearby prairie research plot.

**The Engineering Building** — An addition to the Natural Sciences Building for the Engineering Program was completed in 1982. This addition includes classrooms, laboratories for mechanical engineering, materials science, electronics, microcomputer lab facilities, and office space. The roof serves as an outdoor lab in solar technology.

**The Commons** — The first section of the Commons was completed in 1964. Wings were added in 1966, 1969, and 1979. The building has complete facilities for serving all meals to students living in the dormitories, in the residence halls, and in college approved private housing.

**Radio/Communications Center** — An extensive expansion project was completed in 1974 on the radio station KDCR-FM. The new facilities include a master control room, a production studio, classroom-studio, and an announcer's booth. The project also included a station administration office, a program director's office, a secretarial-reception area, and an engineer's workroom. Remaining space in the new building facilitates a record and tape library, a transmitter, and newswire services.

**The Physical Education Building** — The Physical Education Building was completed in September, 1968 with an addition completed in 1979. This building has a gymnasium which can be divided into three sections for physical education classes. When used for athletic events, the gymnasium will seat 2500 people. The building also contains six offices, a classroom, locker rooms, a weight-training room, an intramural equipment room, racquetball/handball court, and the necessary service areas.

**The Student Union Building** — The S.U.B. serves as a social and recreational center for the college community. The ground level contains a student lounge/art gallery area. In addition,



the main floor contains a coffee shop, the college bookstore, mail facilities, the office of the Director of Residence Life, and the college switchboard.

On the lower level is a four-lane bowling alley, billiard and ping-pong tables, a darkroom, student publications offices, the Dean of Students Office, and the Counseling and Placement Offices.

**Astronomical Observatories** — Two astronomical observatories are freely available to Dordt students. The principal telescopes are 8-inch, 12½-inch, and 16-inch aperture Newtonian reflectors (the latter the largest in western Iowa), and a 5-inch aperture wide angle refractor. Smaller, portable telescopes are also available. In addition to educational programs, research on planets, satellites, and variable stars is undertaken at these facilities.

### **The Residence Halls—**

**West Hall** — This residence hall was built in 1964 and houses 160 students.

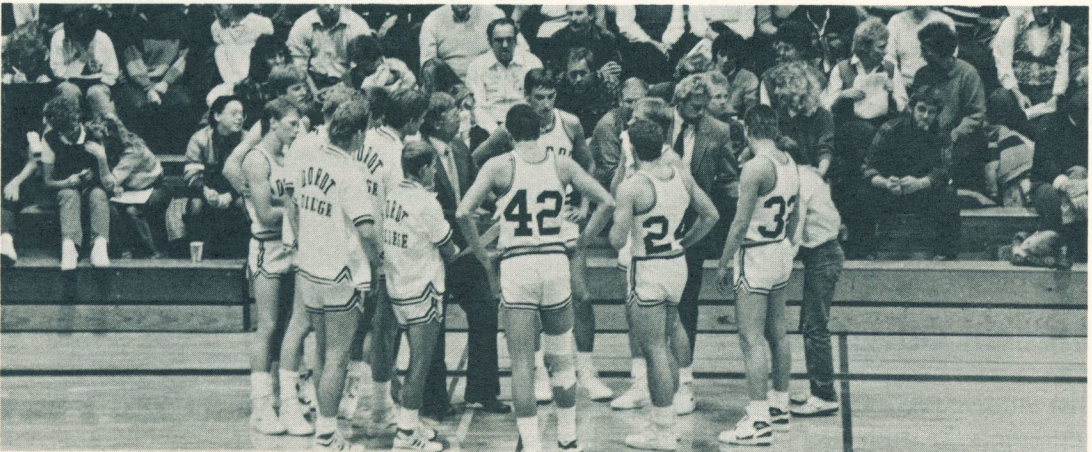
**North Hall** — This residence hall, completed in 1966, serves male students and is equipped to accommodate 200.

**East Hall** — This residence hall was completed in 1970 to provide housing for 200 women.

**East Campus Apartments** — The apartment complex includes six buildings housing 276 students. Four of the buildings each have eight three-bedroom apartments that are equipped to facilitate light housekeeping and two of the buildings have eight three-bedroom apartments with no light housekeeping facilities. Each apartment building is equipped with laundry facilities.

**Agriculture Stewardship Center** — The college owns 160 acres of farmland located two miles north of the college. Present facilities at the center include a free stall and tie stall barn, research barn, milking parlor, and replacement barn. The agriculture center maintains 150 acres as research plot acres for crop testing purposes. In addition, the college owns 120 acres of farmland located three miles north of the college with facilities for swine and cattle production and research.

**NOTE:** All campus buildings are accessible to the handicapped.





# ACADEMIC COMMUNITY

## Christian Commitment

As a Christian institution, Dordt College aspires to be a community of faculty and students committed to the study and evaluation of the various branches of learning in the light of the Bible, God's infallible Word. The life of this community has both its academic and social aspects and in both of these all members of the Dordt College community seek to glorify the triune God.

In accordance with the Christian aim of Dordt College, students are expected to express the Christian faith positively in their general conduct and life style. It is not the purpose or intention of Dordt College to lay down minute regulations for the daily conduct of its students. By their applications for admission, students certify that they intend to live according to the Christian aims of the College. Though admission to Dordt College is the rightful privilege of its constituency, that privilege may be readily withdrawn should the student fail to maintain proper standards of conduct or scholarship.

Students are expected to attend church services twice each Sunday. Students who are not able to attend their home church must (at the time of registration) select one of the local churches as their church home.

Chapel exercises are held twice each week to provide opportunity for students and faculty to join in meditation upon the Word of God. All students are expected to attend chapel exercises regularly, not out of compulsion, but out of recognition of the need for spiritual refreshment and sharing. The chapel exercises play a vital role in the life of the College community.

Each school year begins with the College Retreat at Lake Okoboji. This is followed throughout the year by Bible study groups, lecture series, dormitory devotions, etc. Recognizing the importance of the spiritual aspect of student life, the College also provides pastoral counseling for students. Members of the Student Personnel staff meet with and help students regarding questions and problems which may be troubling them. Thus, the College seeks to maintain and develop a vibrant spiritual climate on campus in the context of which the work of Christian scholarship may be effectively carried on.

Placement services are offered to those graduates who are seeking full-time employment. Each year, credentials are prepared for students registered with the Placement Office to aid them in their search for employment. Interviews are arranged with Christian school officials as well as representatives from business and industry for the benefit of those seeking employment.

## Student Activities

### Student Government

The Student Forum is the student government organization on the Dordt College Campus. It represents the student body and helps all students fulfill their office. The Student Forum consists of twenty students—five from each class. Each of these students serves on a faculty/stu-



dent committee and participates in the major decision-making processes of Dordt College. The Student Forum meets bi-weekly to discuss issues of concern to the Dordt College community.

## Athletics

Dordt College is a member of the National Association of Inter-collegiate Athletics and the IO-KOTA Women's Athletic Conference. As a member of the NAIA, Dordt College teams are eligible for post-season tournament play. Dordt plays a full schedule of games with colleges in Iowa, Minnesota, South Dakota, and Nebraska. Intercollegiate competition for men is scheduled in basketball, baseball, track, golf, tennis, and soccer. Competition for women is scheduled in basketball, softball, volleyball, track, tennis, and golf.

## Intramurals

A year-round program of intramural sports gives all students an opportunity to take part in recreational activities, both competitive and non-competitive. The intramural program is planned and supervised by the student intramural council. Recreation is provided through such activities as: badminton, basketball, bowling, 100 Mile Club, softball, table tennis, volleyball, flag football, swimming, cycling, racquetball, soccer, golf, and floor hockey.

## Club Sports

Students have also organized a number of sports clubs which supplement the regular program, allowing for inter and intrascholastic competition. These club sports include:

Cross Country Running Club  
Hockey Club  
Swimming Club

Additional clubs may be organized as student interest demands. The Club Sports Program is supervised by the Student Activity Committee.

## Clubs

A number of clubs are organized to provide outlets for students with special interests. All clubs must receive Student Activity Committee approval.

Agriculture Club  
Dordt Defender of Life Club  
Future Business Executives Club  
Natural Science Club  
Phi Kappa Sigma  
Photography Club  
Physical Education Club

Political Science Club  
Pre-Seminary Club  
Social Services Club  
Special Education Club  
Students Active in Christian Service  
Club  
Varsity Club  
World Hunger Awareness Club

## **Social Activities**

The College schedules many social activities throughout the year. Students are encouraged to participate in campus activities as an important part of college life.

In addition to club activities, athletics, and musical activities, a number of social events are planned by various groups. Students are encouraged to attend the Fine Arts Festivals, the college sponsored Travelogue Series, the Annual Music Festival, the All-College Banquet, and all other school activities organized by the student representatives.

Several dramatic productions are given each year. All students who wish to participate are encouraged to audition. Opportunity is also given to participate in other forensic activities.

## **Musical Activities**

Vocal and instrumental groups are maintained at Dordt College to contribute to the social and cultural life of the individual and to offer opportunity for professional training and credit toward graduation.

### **Chorale**

All new students, as well as upperclassmen, may audition for membership in the Chorale, an organization which studies representative choral literature and performs several local concerts each year.

### **Concert Choir**

Each year, the Concert Choir presents a number of local concerts and makes an extended tour during spring vacation. Membership in the choir is open by audition.

### **Concert Band**

The Concert Band studies representative symphonic band literature and performs at athletic games and other student activities. Local concerts are performed and a tour is made periodically.

### **Ensembles**

Ensembles and small groups are organized each year to study ensemble literature and adequate opportunity is provided for performance.

### **Orchestra**

Students may audition for membership in the Orchestra at the beginning of the school year. The Orchestra performs local concerts each year.

## **College Publications**

DORDT COLLEGE DIAMOND, the school newspaper, published bi-monthly by the students.

THE SIGNET, an annual student publication—issued in the summer.

THE CANNON, the creative literary publication in the arts.



THE DEFENDER, a booklet with information for students—distributed in the summer.

DORDT COLLEGE VOICE, the official college newsletter, presents articles and information of interest to students and the constituency.

DORDT COLLEGE CATALOG, an annual publication of academic announcements for students and society members.

PRO REGE, a quarterly publication of the Dordt College faculty.

SPECTRUM, the quarterly Alumni Newsletter.

## **Student Services**

### **Counseling**

Counseling services are offered to the Dordt Community as a program of the Student Affairs Division. These services are designed to promote and enhance responsible academic activity and to meet the individual counseling needs of the community. Trained counseling personnel are available to assist students with their social, emotional, spiritual, and vocational needs.

The staff provides assistance for students searching for careers by helping them recognize their own resources and talents and by exploring with them the variety of careers available. In the Student Affairs Office a resource reference area is available with a wide selection of career information.

In addition to individual counseling, the counseling staff provides classes and workshops dealing with career development, college living, personal growth, and life enrichment.

### **Job Placement Assistance**

Formal placement services are provided for all students graduating with either a four-year or two-year degree. All placement is directed by the Coordinator of Counseling Services. The Placement Office assists in arranging on and off campus interviews and maintains student placement records. The services available to the student include resume writing, job application procedures, interviewing skills information, and job vacancy listings.

Students who plan to use the placement services should notify the Placement Office early in the first semester to complete a set of placement credentials.

### **Housing**

All unmarried students, with the exception of those who live at home or with relatives, are required to room in college approved housing. The college reserves the right to make housing adjustments when necessary.

Rooms for incoming freshman and transfer students are reserved in advance upon receipt of the \$100.00 tuition deposit. All students who register for the first time at Dordt must pay a \$40.00 security fee at registration. This fee will be refunded when the student terminates residence at Dordt College if no excessive wear has been sustained.

Rooms for returning upperclassmen are reserved in advance upon receipt of \$50.00. This deposit will be applied to the first semester's rent and is a non-refundable deposit.



## Housing Regulations

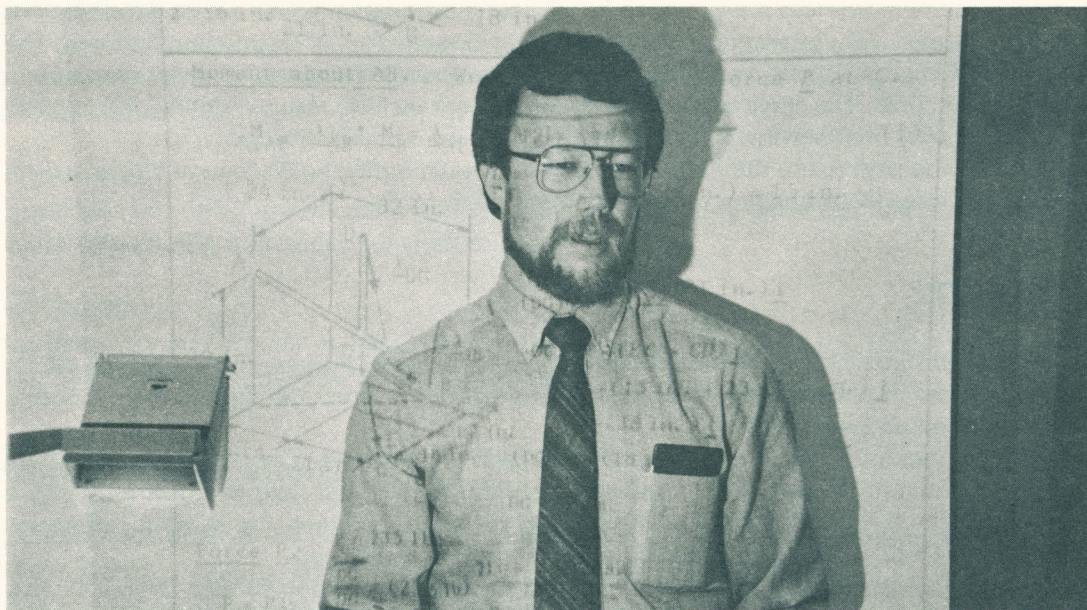
Rooms are furnished with necessary articles of furniture, such as beds, mattresses, desks, chairs, and dressers. Students provide their own blankets, linens, bedspread, pillows, towels, and wash clothes. The student, by applying for a room and paying a deposit, obligates himself or herself to college housing for the entire year or for such portion of the year as he or she may attend Dordt College. Each room contract terminates at 10:00 AM following the last day of examinations.

The charges set by the College do not include the Christmas and spring vacation periods. During these vacations the dining hall and the residence halls are closed. The College will help make arrangements for those who cannot go home or to a friend's home during these vacation periods.

Rooms of students on and off campus are open for College inspection at any time. The student is held responsible for any damage to his or her room, residence complex, or furnishings. Each residence hall is under the supervision of a Resident Director and Resident Assistants. Homeowners and College officials cooperate in supervising students in private homes. Students are responsible to the Resident Director and/or to the homeowner and they are expected to abide by all College determined housing regulations in addition to those listed in this catalog. For a more complete statement of rules regarding student housing and student conduct, see the **Defender**, (the student handbook) and the Residence Hall Handbook.

## Meals

All students, except married students and those assigned to light housekeeping apartments, are required to take their meals at the college dining hall unless exempted by the College. Cooking is not permitted in the college residence halls.





# ADMISSION TO THE COLLEGE

## Requirements

Graduates of approved high schools who have satisfactorily completed a minimum of fifteen units may apply for admission to Dordt College. A subject pursued for one school year of thirty-six weeks with five recitation periods a week counts as one unit.

Of the fifteen units, at least eight must be from the fields of social science, English, foreign languages, natural science, or mathematics.

Although the exact sequence of courses for admission is not prescribed, high school students should try to complete, as a minimum, the following:

- 3 or 4 years of English
- 2 years of social sciences
- 2 years of mathematics
- 2 years of a foreign language
- 2 years of a natural science

## Notice of Nondiscrimination

Students, their parents, and employees of Dordt College are hereby notified that Dordt College does not discriminate on the basis of race, color, national origin, sex, or handicap and is required by Title VI, Title IX, and Section 504 not to discriminate on the basis of race, color, national origin, sex, or handicap in admission or access to, or treatment or employment in, its programs and activities. Any person having inquiries concerning the College's compliance with Title IX should be directed to contact Dr. Douglas Ribbens. Questions concerning Title VI and Section 504 should be directed to Mr. Bernard De Wit. These administrators have been designated to coordinate the College's efforts to comply with Title VI, Title IX, and Section 504.

## Application

Application for admission should be made well in advance of the semester a student wishes to enter Dordt College. To make a formal application for admission, candidates should write to the Director of Admissions requesting application forms.

Students will be considered for admission after they have submitted the following official forms:

1. Application for Admission with \$10.00 fee.
2. Transcript of high school record.

Accepted students are to deposit \$100.00 toward tuition within 21 days of the acceptance date. The tuition deposit serves as a declaration of intent to enroll and reserves housing. The \$100.00 is credited to the student's account at registration. It is refundable until May 1 if requested in writing.

## Entrance Test

All applicants for admission to the freshman class are required to take the ACT test of the American College Testing Program. Information concerning dates and testing centers for the

ACT tests can be obtained from high school counselors. Students who do not take the ACT test prior to coming to Dordt College will be required to take the ACT test at Dordt College. A fee will be charged for this testing.

## Notification of Admission

As soon as the required forms have been received they will be evaluated by the Director of Admissions. Admission will be granted as follows:

**General Admission** — Students whose records indicate that they are able to pursue college work are granted general admission.

**Admission on Probation** — Students whose records indicate that they might have serious difficulty pursuing college work are admitted on probation.

## Transfer Admissions

Students who have attended another institution of collegiate rank may be considered for admission with advanced standing. College credits presented by transfer students will be evaluated in terms of the quality of the student's work and the relationship of the subject matter to the Dordt curriculum. A maximum of sixty-four semester hours of academic credit is granted to graduates of junior colleges.

Transfer candidates will be required to file the following credentials with the Associate Academic Dean:

1. Application for Admission Form.
2. Transcript of high school record.
3. Official college transcripts. Transfer candidates must have the Registrar at each collegiate institution attended forward an official transcript. Transcripts submitted by the candidate are not acceptable.
4. Test results. Transfer students should have ACT test results forwarded to Dordt.

After the application materials have been evaluated, the student will receive notification of the action taken. If the student is accepted, he will receive a statement concerning the amount of credit accepted and the academic status assigned.

Admission to advanced standing does not excuse the student from meeting the specified requirements for graduation from Dordt College.

## Special Students

Students who do not plan to follow a prescribed course of study may register as special students for such courses as they are able to pursue with profit on the basis of their qualifications. Students who pursue part-time programs are also classified as special students.

Permission to register as a special student must be obtained from the Associate Academic Dean.



## Admission of Foreign Students

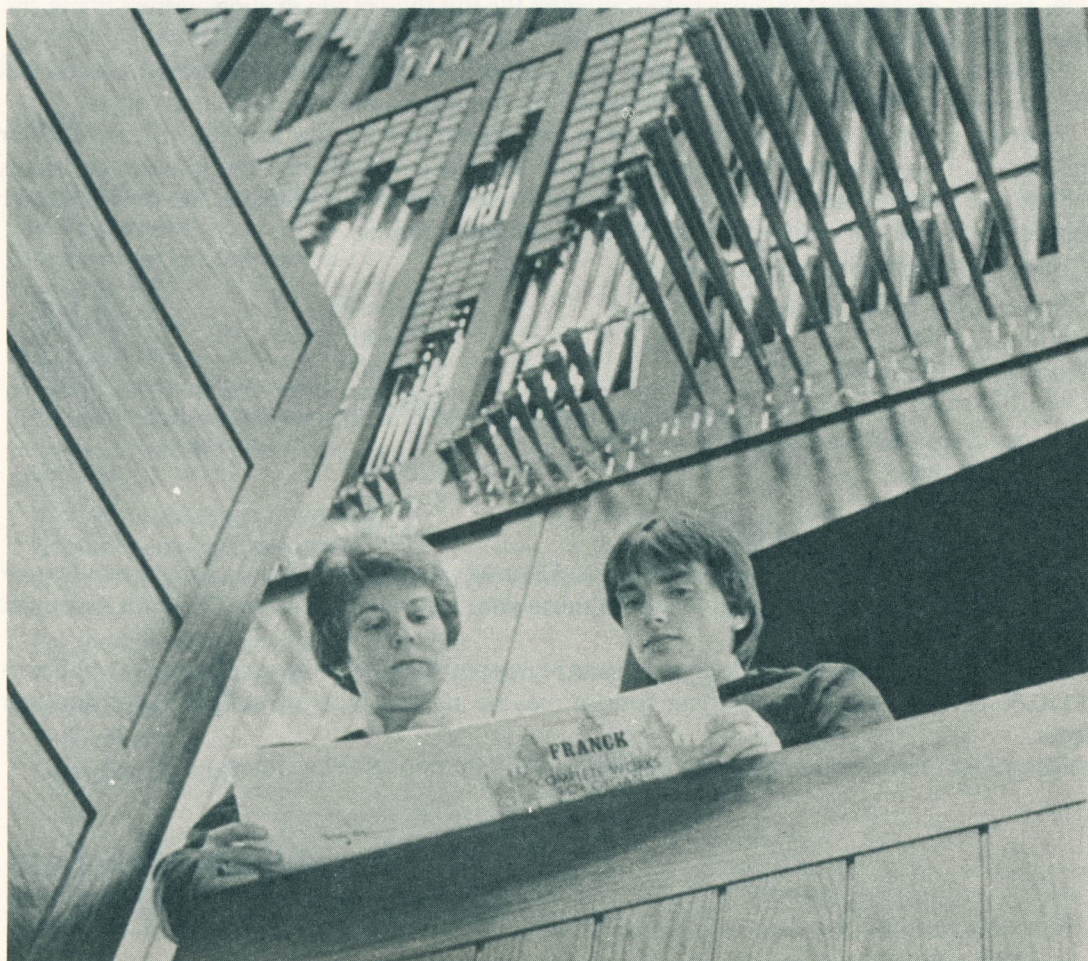
Dordt College has been approved as an institution of higher education for the training of immigrant students who are in the United States on student visa.

With the letter of admission, the College will send Form I-20A-B which should be taken to the American Consul in the student's area to arrange for passport and visa. This is not required for Canadian students.

## Registration

Registration takes place at the beginning of each semester. Students will be sent instructions and appointments several weeks prior to the registration dates.

Registration is not completed until tuition and fees have been paid. Registration is considered late and the late registration fee is charged if not completed before the beginning of classes for the semester.





# EXPENSES AND FINANCIAL AID

## Expenses

The cost of attending Dordt College is kept as reasonable as possible. Students pay in tuition only a part of the cost of their education. Each student receives the benefit of finances obtained from classical quotas, denominational church offerings, church society contributions, and gifts from individuals.

## Tuition

Tuition is \$5690.00 for the year and \$2845.00 for a semester.

Students whose parents are members of the Christian Reformed Church and, who thus, contribute regularly to the support of Dordt College, will be granted an institutional grant-in-aid. The amount of the grant-in-aid is determined by the distance of the mailing address of the student's home from Dordt College.

Students whose parents are members of a supporting non-Christian Reformed church will be granted an institutional grant-in-aid based on the local zone rate (within 20 miles).

Married students will have their grant-in-aid determined by the location of their former residence. Two semesters of continuous local residence will change the grant-in-aid status unless the married student can show that he or she regularly returns to his or her former residence for gainful employment during the summer months.

Grants-in-aid will be awarded as follows:

<i>Distance from Dordt within State of Iowa</i>	<i>Per Semester</i>	<i>Per Year</i>
Within 20 miles	\$125.00	\$250.00
From 21 to 100 miles	\$140.00	\$280.00
Over 100 miles	\$150.00	\$300.00
<i>Distance from Dordt outside State of Iowa</i>		
Within 300 miles	\$200.00	\$400.00
301-1000 miles	\$250.00	\$500.00
Over 1000 miles and all of Canada	\$350.00	\$700.00

The tuition rate for part-time students is \$240.00 per semester hour, with a \$15.00 per semester hour institutional grant-in-aid for those who are members of the Christian Reformed Church.

The tuition for evening students who are registered for one or two courses (1-7 hours) is \$150.00 per semester hour. Evening courses may be audited for a fee of \$75.00 per semester hour.

The tuition for summer graduate courses is \$150.00 per semester hour.



## Room and Board

	<i>Per Semester</i>	<i>Per Year</i>
*Residence Hall Room	\$410.00	\$820.00
Residence Hall telephone charge	6.00	12.00
Apartments—		
*without housekeeping facilities	410.00	820.00
**with housekeeping facilities	460.00	920.00
Board-Dining Hall—		
21 meals per week	540.00	1080.00
15 meals per week	530.00	1060.00
10 meals per week	480.00	900.00

\*Students in all private or college housing will pay \$425.00 for their room the first semester and \$395.00 for the second semester. Students entering college housing for the first time the second semester will pay \$410.00 for their room.

\*\*Students in all college approved housing with housekeeping will pay \$475.00 for their room the first semester and \$445.00 for the second semester. Students entering college housing with housekeeping the second semester will pay \$460.00 for their room.

## Fees

Matriculation Fee (payable once) . . . . .	\$10.00
Late Registration . . . . .	10.00
Late Payment Fee (per week) . . . . .	2.00
Transcript Fee . . . . .	1.00
Graduation Fee . . . . .	10.00
Placement Fee . . . . .	15.00
Student Teaching (per hour) . . . . .	9.00
Non-Local Student Teaching (in addition to student teaching fee) . . . . .	100.00
Vehicle Registration Fee . . . . .	5.00
Music Fees—	
Individual lessons per semester . . . . .	125.00
Group lessons per semester . . . . .	55.00
(There is no refund on music lesson fees after the second week of classes.)	
Art Fees—	
For the following classes: Art 216, 218 . . . . .	25.00
For the following classes: Art 220, 228, 230, 316-320, 328, 330 . . . . .	15.00
Service charge for returned checks—	
U.S. checks . . . . .	10.00
Canadian checks . . . . .	20.00

## Student Medical Insurance

A hospital-medical-insurance policy is available to all full-time students. Participation in this program is on a voluntary basis. The cost of the policy for singles is \$75.50 for the twelve

month period from August 20 to August 19. Plans are also available for married couples at \$184.00 and families at \$318.00. The fee is payable at the time of registration for the first semester.

## Payment of Accounts

Charges for tuition, fees, room and board are due and payable at the beginning of each semester at the time of registration. However, those who are unable to make full payment at that time may pay one-half at the time of registration and pay the balance due six weeks after registration. The exact dates will be designated by the Business Office at the beginning of each semester.

All financial accounts must be paid in full before transcripts will be released.

## Refunds

Refunds will be made by the Business Office only upon receipt of a request for refund approved by the Registrar. Refunds will be based on the date on which the Registrar signs the Request for Refund and will be made as follows:

### Tuition

Withdrawal during the first week	90%
Withdrawal during the second week	70%
Withdrawal during the third week	60%
Withdrawal during the fourth week	50%
Withdrawal during the fifth week	40%
Withdrawal during the sixth week	30%
Withdrawal during the seventh week	20%
Withdrawal during the eighth week	10%
After eighth week	No refund

### Fees

No refund is made on fees.

### Room and Board

Room and board fees will be refunded on a pro rata basis.



# Financial Aid

In addition to the extensive scholarship program, which is based on superior academic potential and performance, Dordt College has a complete program of financial assistance for all needy students. Types of financial assistance available include the grant-in-aid program, loan programs, the College Work-Study program, the Pell Grant program, the Supplemental Educational Opportunity Grant program, and other special programs outlined below.

Limited finances need not prevent promising students from coming to Dordt College. Generally, qualified students' needs can be met through a Financial Aid Award which includes several types of aid. Any student who wishes to apply for financial assistance may do so by writing to the Director of Financial Aid after he has been accepted for admission to the college.

All United States citizens who wish to apply for financial aid must submit the College Scholarship Service "Financial Aid Form" (FAF), which we prefer, or the American College Testing "Family Financial Statement" (FFS), and the green "Application for Financial Aid" from Dordt College. All Canadian citizens who wish to apply for financial aid must submit the "Canadian Application for Financial Aid" from Dordt College. All necessary forms may be obtained by writing to the Director of Financial Aid, Dordt College.

## Grants

### Pell Grants

The Pell Grant Program was authorized by the Education Amendments of 1972. This program provides for the payment of Pell Grant awards to students attending eligible institutions of higher education. The maximum grant eligibility for each student is presently \$2,100.00. The application forms may be obtained from the high school or the college Financial Aid Office. This program is available to students who are citizens of the United States.

### Supplemental Educational Opportunity Grants

The purpose of this program is to provide non-repayable grants to students who, because of exceptional financial need on the part of their family, would be unable to attend college without such assistance.

Any student who is a citizen of the United States and has been admitted to Dordt College on a full-time basis is eligible to apply for such a grant. Grants will range from \$200.00 to \$2000.00 per year. This grant is renewable each year up to four years as long as the student continues to make satisfactory progress and his financial situation does not change.

### Dordt College Grants

These grants are provided by the college to all students, regardless of citizenship, who have financial need which cannot be met with other grant programs.

## Loans

### Perkins Loans (formerly NDSL)

This program provides long term loans to students in good standing who have been accepted for enrollment in a full-time course of study and are citizens of the United States.

Students are eligible to borrow a cumulative amount of \$4500.00 for the first two years and \$9000.00 for the bachelor degree. No interest is charged while the student is in college. The loan may be repaid over a period of 10 years with a minimum repayment of \$30.00 per month required. Interest is at the rate of 5% per year.

Repayment may be deferred while a borrower is serving in the Armed Forces, with the Peace Corps, or VISTA. Repayment is also deferred for as long as a borrower is enrolled at an institution of higher education and is carrying at least a half-time academic work load.

The primary and most essential condition of an applicant's eligibility for a Perkins Loan is that he is in need of the requested loan to pursue his course of study during the period for which the application is made.



## Heritage 21 Loans

These loans are provided by the college to all students with need, regardless of citizenship. No interest is charged while the student is enrolled as a full-time student at Dordt College or at another recognized college or university. Interest and principal payments will begin six months after the last month of attendance at Dordt or at another recognized college or university with a maximum deferment of five years allowed for attendance at another institution. Interest rates on funds borrowed will vary according to the number of years of study completed at Dordt. For a student who has completed four years of study the interest will be three percent, for a student who has completed three years of study the interest will be four percent, for a student who has completed two years of study the interest will be five percent and for a student who has completed one year of study the interest will be seven percent. All loans must be repaid within ten years from the time of the last month of attendance as described above. Minimum payments will be \$50.00 per month and will be payable to the Business Office at Dordt College.

## Guaranteed Student Loans

Many states participate in the Guaranteed Student Loan Program which was created under the provisions of the Higher Education Act of 1965 to provide financial assistance for students from middle or upper income families. This program is designed to supplement other aid programs.

A freshman or sophomore student who is a United States citizen may borrow up to \$2625.00 per year at 8% interest. A junior or senior may borrow up to \$4000.00 per year. The GSL is an interest-free loan which starts bearing interest six months after the student's course of study has ceased.

Repayment also begins six months after the student has ceased his course of study. The normal repayment period is five to ten years with a minimum repayment of \$30.00 per month.

Some states elect not to participate in the federal program since they have their own Guaranteed Student Loan Programs. Residents of these states should contact their state's Higher Education Commission for the proper forms and instructions needed to apply for a guaranteed loan.

Guaranteed loans are made through the student's hometown bank or savings and loan association and must be approved by the college. All repayments are arranged with and made directly to the lending bank. If a student has difficulty obtaining this loan through a local institution, he should contact the Financial Aid Office at the college for assistance in processing this loan through a bank located near the college.

## Canada Student Loans

The provincial governments have loan programs which may be used by Dordt students. Information and application forms may be secured by writing to the Department of Education of the province listed below:

### ALBERTA

Student Finances Board  
Department of Advanced Education  
10th Floor, Baker Centre  
10025 - 106 Street  
Edmonton, Alberta T5J 1G4  
Telephone: 403-427-2740

### NOVA SCOTIA

Student Aid Office  
Department of Education  
P.O. Box 578  
Halifax, Nova Scotia B3J 2S9  
Telephone: 902-424-7737

### PRINCE EDWARD ISLAND

Student Aid Division  
Department of Education  
P.O. Box 2000  
Charlottetown,  
Prince Edward Island C1A 7N8  
Telephone: 902-892-3504

### BRITISH COLUMBIA

Student Services Branch  
Ministry of Education  
3rd Floor, Douglas Building  
617 Government Street  
Victoria, British Columbia V8V 2M4  
Telephone: 604-387-4611

### ONTARIO

Student Awards Branch  
Ministry of Colleges and Universities  
Mowat Block, Queen's Park  
Toronto, Ontario M7A 2B4  
Telephone: 416-965-5241

### SASKATCHEWAN

Student Financial Services Branch  
Department of Advanced Education  
and Manpower  
1855 Victoria Avenue  
Regina, Saskatchewan S4P 3V5  
Telephone: 306-565-5620

### MANITOBA

Student Aid Branch  
Department of Education  
P.O. Box 6  
693 Taylor Avenue  
Winnipeg, Manitoba R3M 3T9  
Telephone: 204-945-6322

### NEW BRUNSWICK

Student Aid Branch  
Department of Youth and Recreation  
P.O. Box 6000  
Fredericton, New Brunswick E3B 5H1  
Telephone: 506-453-2577

### QUEBEC

Student Aid Service  
Department of Education  
Government of the  
Province of Quebec  
Quebec City, Quebec G1A 1H2  
Telephone: 418-643-3750



# Student Employment

## College Work Study Program

Under Title I-C of the Economic Opportunity Act of 1964, Dordt College participates in the Work-Study Program which creates part-time job opportunities for students from low income families. These jobs range from five to fifteen hours per week.

Students qualify for participation in the Work-Study Program if they are:

- a United States citizen.
- in need of financial aid as shown by the "Financial Aid Form" or the "Family Financial Statement."
- capable of doing good academic work in college.
- able to meet job qualifications.
- accepted for admission as a full-time student in good standing.

Students with required skills and experiences may qualify for jobs in the following fields: clerical assistant, library assistant, typist, custodial work, instructional assistant, kitchen help, agricultural help, and several off-campus positions. Application forms must be completed by July 15.

## Work for Institution Program

The college provides employment for students who may not qualify for the federal work-study program and yet need employment to assist them to pay for college expenses. Application forms must be completed by July 15.

# Special Programs

## Dordt Canadian Exchange Rate Program

Dordt College will have a fixed exchange rate of 12 percent for all charges paid to the Business Office. For all other expenses a student incurs (books, money for food, personal spending money, etc.) money exchanged at the Business Office at Dordt will bear an exchange rate of no more than 30 percent. To receive these benefits all Canadian funds must be brought to and exchanged at the Business Office at Dordt College.

## Veterans' Education Benefits

Dordt College is approved to offer education to students who are eligible for benefits under the terms of the Veterans' Readjustment Act (Public Law 90-77) or under the War Orphans Bill (Public Law 634). Eligible students should write to their regional Veterans' Administration Office to obtain the application information.

## Social Security Benefits

For information on Social Security benefits, the student should visit his local Social Security office.

## Vocational Rehabilitation Benefits

Students who, by reason of physical disabilities, are eligible for benefits under vocational rehabilitation programs should write to the Division of Rehabilitation Education and Service in their state.

## State of Iowa Scholarship Program

The 1965 session of the Iowa Legislature established a state scholarship program for the benefit of Iowa residents attending colleges within the state. These scholarships are based on the financial need and the academic ability of the student and may be used only for tuition and mandatory fees. Application forms and information regarding eligibility for the program are available from Iowa high school counselors.

## State of Iowa Tuition Grant Program

The 1969 session of the Iowa Legislature established a state tuition grant program for the benefit of Iowa residents attending private colleges within the state. These grants are based on financial need and may be used only for tuition and mandatory fees. Application forms and information regarding the program are available from Iowa high school counselors.

## Iowa Guaranteed Loan Payment Program

The 1983 General Assembly of the Iowa Legislature established this program to encourage greater emphasis on the study of mathematics and the sciences. This program will assist newly certified mathematics and science teachers in



repaying their Iowa Guaranteed Student Loans. Any teacher who graduated from college after January 1, 1983, with a major in mathematics or science and who is employed in an Iowa public or approved non-public school as a teacher of a sequential mathematics course at the advanced algebra level or higher, a chemistry or advanced chemistry course, or a physics or advanced physics course is eligible to apply. Application forms may be obtained from the Iowa College Aid Commission, 201 Jewett Building, Ninth and Grand, Des Moines, Iowa 50309.

### **Scholarship and Loan Programs — Other States**

Several states have scholarships or loan programs which may be used at Dordt College. Information on such programs may be obtained from high school counselors.





# SCHOLARSHIPS AND GRANTS

Scholarships are awarded only to full-time students. One-half of the award will be paid each semester.

More detailed scholarship or grant information and application forms can be obtained by writing to the Coordinator of Scholarships and Grants, Dordt College, Sioux Center, Iowa 51250. All recipients will be notified by the Coordinator of Scholarships and Grants.

The application deadline for all incoming freshman scholarships or special grants is **January 10, 1988**, unless stated otherwise. **March 1, 1988**, is the application deadline for all sophomore, junior, and senior scholarships, unless stated otherwise.

## Scholarships for Freshmen

### Dordt College Honors Scholarship

Honors Scholarships will be awarded to the top 15 to 20 incoming freshman students. The awards, which range from \$800.00 to \$2,000.00, will be given in recognition of one or more of the following: grade point average, ACT scores, class rank, extra-curricular involvement. National Merit Scholarship Corporation Certificate of Merit winners will automatically qualify for a \$2,000.00 Honors Scholarship award. Honors Scholarship awards are renewable for four years, provided the recipient maintains a grade point average of 3.00. All grade point averages are evaluated at the end of the school year. The application of January 10 is applicable to this program.

### Dordt College Merit Scholarship

Merit Scholarships will be awarded to incoming freshman students. The awards, which range from \$200.00 to \$1,200.00, will be given in recognition of one or more of the following: high school academic record, ACT scores, extra-curricular involvement. The application deadline of January 10, is not applicable to Merit Scholarships. However, early applicants will have priority for the available awards. Merit Scholarship awards are renewable for four years, provided the recipient maintains a grade point average of 3.00. All grade point averages are evaluated at the end of the school year.

## LEADERSHIP/ACTIVITY AWARDS

Dordt College gives from 10 to 15 awards to incoming freshman students in recognition of one or more of the following: high school academic record, class rank, leadership ability, extra-curricular involvement. These awards are funded from separate sources. Even though the criteria may vary for each award program, a single set of application materials can be used to make application for any of these awards. Individual descriptions of each award program are listed below.

### Harkers Leadership Grants

Grant awards are given to students who rank in the top twenty percent of their class. Award amounts range from ten to twenty-five percent of the current tuition cost.

### Presidential Grants for Future Leaders

These leadership grants are awarded to students who rank in the top ten percent of their class. Award amounts range from ten to twenty-five percent of the current tuition cost.

### Jack Visscher Memorial Scholarship

This \$500.00 scholarship award is awarded to a student who ranks in the top ten percent of the class.

### **Dordt Development Foundation Activities Grant**

These grants are awarded to students who have demonstrated exceptional talents and skills in one or more of the following extra-curricular areas: athletics, music, theater.

## **BUSINESS AWARDS**

Dordt College gives scholarship awards to incoming freshman students who intend to study in the field of business. These awards are funded from separate sources. Even though the criteria may vary for each award program, a single, general business scholarship application can be used to make application for any of these awards. Individual descriptions of each award program are listed below.

### **John Bonnema Business Scholarship**

Two \$500.00 awards will be given. Recipients must have a minimum grade point average of 3.00, display special potential in the field of business, and demonstrate Christian commitment and Christian principles.

### **American State Bank Business Scholarship**

This scholarship is available to students who exhibit special aptitude and potential in accounting or business administration. A four-year \$2,000.00 scholarship award is given annually. The recipient must rank in the top twenty percent of the high school class and must intend to major in accounting or business administration.

## **MUSIC AWARDS**

Dordt College gives awards to incoming freshman students who have made outstanding contributions in the field of music. These awards are funded from separate sources. Even though the criteria may vary for each award program, a single, general music award application can be used to make application for any of these awards. Individual descriptions of each award program are listed below.

### **Joe J. Dahm Memorial Music Scholarship**

Three \$125.00 awards are given annually. One award is given in each of the following categories: instrumental performance, keyboard performance, vocal performance.

### **Minnie J. Dahm Organ Education Scholarship**

A four-year \$800.00 award is given annually to a student who demonstrates a high level of competence and potential as a future professional organist. The recipient must have a minimum grade point average of 3.00

### **Ringerwole Piano Scholarship**

A \$200.00 award is given annually to a student who demonstrates a high level of competence and potential as a future professional pianist. The recipient must have a minimum grade point average of 3.00

### **Dordt College Music Grants**

Four grants in the form of two semesters of private study with the normal fee waived are awarded annually to encourage incoming freshman students to study music at Dordt College. The monetary value of each grant is approximately \$200.00

## **SPECIAL AWARDS**

### **Foreign Missionary Scholarship**

Children of all current foreign missionaries affiliated with the Christian Reformed Church will be awarded a tuition-free scholarship at Dordt College for the freshman year. No application is necessary.



### **Huisman Minority Students Scholarship**

Several awards ranging from \$500.00 to \$1,500.00 are awarded annually to incoming freshman students. The award recipients must demonstrate leadership qualities and must be from a minority race as defined by the Christian Reformed Church Synodical Committee on Race Relations.

### **Vander Haag Foreign Students Scholarship**

A scholarship of \$500.00 is awarded to first-time freshman students who reside in a foreign country other than Canada.

### **Dordt College Alumni Scholarship of West Michigan**

The Dordt College Alumni from the western Michigan area have established a scholarship fund to encourage students to commit themselves to an education at Dordt College. The recipients, who must be from Michigan, are selected to receive awards of \$400.00 each.

### **A.G. Wassenaar Scholarship**

This scholarship is used to assist Dordt College students majoring in agriculture to prepare for a career with relief agencies which seek to alleviate poverty, hunger, and human suffering. The award is given primarily to help provide agricultural development in countries other than the United States or Canada. The amount of the scholarship is \$500.00.

### **Martin Seven Communication Scholarship**

One \$300.00 scholarship award is given annually to students who intend to pursue a major in communication.

### **Vander Haag Computer Science Scholarship**

This scholarship is available to students who exhibit superior aptitude in the field of computer science. A \$500.00 award is given annually. The recipient must have a minimum grade point average of 3.00 and must intend to major in computer science or management information systems.

### **John B. Hulst Teacher Education Scholarship**

A \$1,000.00 scholarship is awarded annually. The recipient must have a minimum grade point average of 3.00 and must intend to enter the teaching profession in one of the Christian schools.

### **Martin Seven Math Scholarship**

Dordt College gives two annual awards ranging from \$125.00 to \$200.00 to students who exhibit superior aptitude in the field of mathematics. Application can be made only through participation in the Dordt College Mathematics Competition.

### **Chris E. Haan Memorial Scholarship for Pre-Seminary Students**

Two \$2,000.00 four-year awards are given annually to students interested in entering the pre-seminary program. Recipients must have a minimum cumulative grade point average of 3.00.

## **Scholarships for Sophomores, Juniors, and Seniors**

### **Dordt College Academic Scholarship**

Dordt College automatically awards academic scholarships to full-time students whose college grade point average indicates superior scholarship. To qualify for a Dordt College Academic Scholarship a student must have completed college work at Dordt or at another accredited college as follows: junior scholarship - 58 semester hours, senior scholarship - 88 semester hours. Scholarship amounts will be granted on the basis of cumulative grade point average as follows: 3.90-4.00—\$250.00, 3.75-3.89—\$200.00, and 3.50-3.74—\$150.00.

## **BUSINESS AWARDS**

Dordt College gives scholarship awards to upperclass students who intend to study in the field of business. These awards are funded from separate sources. Even though the criteria

may vary for each award program, a single, general business scholarship application can be used to make application for any of these awards. Individual descriptions of each award program are listed below.

### **Rolscreen Honors Program at Dordt College**

An annual \$750.00 scholarship award is offered to a student who has a minimum grade point average of 3.00 and exhibits special aptitude in accounting or business administration.

### **Jack Visscher Memorial Scholarship For Business and Economics Students**

A \$500.00 scholarship award is offered annually. The recipient must have a minimum grade point average of 3.00 and must be an accounting, business administration, or business education major who has taken several courses in economics.

### **Henry De Groot Business Administration Scholarship**

An annual \$250.00 award is given to an outstanding accounting, business administration, or business education major. The award is based on evidence of scholarship, Christian commitment, and an interest in service through the administration of a non-profit organization, teaching of accounting, professional accounting, public relations, and advertising.

### **R.J. Dykstra Scholarship For Business Administration Students**

One \$300.00 award and one \$200.00 award are given annually to students who exhibit special potential in business administration. The awards are based on Christian commitment, evidence of scholarship, and communication skills.

### **John Bonnema Business Scholarship**

One \$500.00 award is given annually to a student who exhibits special potential in the field of business, and demonstrates Christian commitment and Christian principles. The recipient must have a minimum grade point average of 3.00.

### **Special Effort Scholarship For Business Students**

Two \$300.00 awards are given annually. Recipients must have a minimum grade point average of 2.00 and must do scholastic work above the level that would ordinarily be expected of them. This scholarship does not necessarily reward those students who earn excellent grades, but rather those who put forth extra-ordinary effort to obtain their grades.

## **EDUCATION AWARDS**

Dordt College gives two scholarship awards to upperclass students who have been accepted into the Teacher Education Program. These awards are funded from separate sources. Even though the criteria may vary for each award program, a single, general education scholarship application can be used to make application for either of these awards. Individual descriptions of each award program are listed below.

### **John Bosma Memorial Scholarship**

An annual scholarship of \$400.00 is awarded to a student who exhibits a strong commitment to Christian service, scholastic ability, and potential for success in the classroom.

### **Vander Ark Family Scholarship**

This annual \$500.00 scholarship award is available to students who exhibit a strong commitment to Christian service, scholastic ability, diligent study habits, sound moral character, and promise of growth in spiritual and moral leadership.



## SPECIAL AWARDS

### Vera W. Mayer Scholarship

Through the Iowa College Foundation several awards are available each year to upperclassmen based on academic achievement and financial need. Recipients are chosen by a selection committee. No application is necessary.

### Dordt College Alumni Scholarship

The Alumni Scholarship of \$600.00 is awarded to a second semester junior at Dordt College by the Alumni Board on behalf of the Dordt Alumni Association. Students in any area of study at Dordt with a minimum grade point average of 3.25 are eligible for this award. Some of the criteria for this scholarship are attitude, involvement, and perspective.

### A.G. Wassenaar Scholarship

This scholarship is used to assist Dordt College students majoring in agriculture to prepare for a career with relief agencies which seek to alleviate poverty, hunger, and human suffering. The award is given primarily to help provide agricultural development in countries other than the United States or Canada. The amounts awarded are: sophomore - \$1,000.00, junior - \$1,500.00, senior - \$2,000.00.

### Martin Seven Communication Scholarship

A \$300.00 scholarship award is given annually to a student who is a communication major.

### Martin Seven Writing Competition

Several awards are made to students based on creative writings.

### Interstates Electric and Engineering Scholarship

A \$600.00 scholarship award is offered annually. The recipient must have a minimum grade point average of 3.00 and must demonstrate special aptitude and potential for a career in electrical engineering.

### Dordt College Study Abroad Scholarship

Several scholarship awards of varying amounts are available for worthy students who have been accepted for Dordt's Study Abroad Program in The Netherlands, Germany, Mexico, and Costa Rica. The application deadline for The Netherlands and Germany awards is November 15. March 1 is the application deadline for the Mexico and Costa Rica awards.

### The Foreign Candy Company Study Abroad Scholarship

Several scholarship awards of varying amounts are awarded to academically qualified students to enable them to study in a foreign country. Recipients are selected on the basis of financial need, academic ability, and commitment to International Education. The application deadline for The Netherlands and Germany awards is November 15. March 1 is the application deadline for the Mexico and Costa Rica awards.

### Joe J. Dahm Memorial Music Scholarship

Three \$125.00 awards are given annually to a sophomore, a junior, and a senior based on music scholarship and contribution to the music program at Dordt.

### Ringerwole Organ Scholarship

This annual scholarship provides two semesters of private organ lessons to an organ student. Each competitor must play a selected list of works for a jury examination committee. The monetary value of this award is approximately \$200.00.

### Martin Seven Physical Education Award

A \$400.00 award is given annually to the outstanding physical education major.

### Nick R. Van Til Scholarship

This scholarship of \$500.00 is awarded annually to a junior history, philosophy, or theology major. Recipients are selected on the basis of grade point average, breadth of general interest, competence, academic potential, life goals, and possibly financial need. Recipients must have a minimum grade point average of 3.30.



### **AuSable Institute Fellowship and Grant-in-Aid**

The AuSable Institute of Environmental Studies will award at least one fellowship (\$1,000.00) and one grant-in-aid (\$350.00) to qualified Dordt students for the institute's summer sessions. Applicants for the fellowship must have completed the sophomore year with one academic year in the natural sciences. Applicants must show superior academic ability and distinct interest in environmental studies and stewardship. Fellowship recipients are required to take one course and a practicum during either summer session. The AuSable grants-in-aid are open to students who have completed the freshman year and show financial need. Applications are due February 1 and awards will be made by March 1.

### **Minnie Julia Dahm Scholarship for Medical Technology Students**

Two \$300.00 awards are given annually. All medical technology students are eligible to apply, but preference will be given to applications from students who will be entering their junior year. Recipients must have a minimum grade point average of 3.00 and must demonstrate an understanding and application of Christian principles.

### **Minnie Julia Dahm Scholarship For Pre-Medical Students**

Two \$300.00 awards are given annually. All pre-medical students are eligible to apply, but preference will be given to applications from students who will be entering their junior year. Recipients must have a minimum grade point average of 3.00 and must demonstrate an understanding and application of Christian principles.

### **Dordt College Social Work Scholarship**

This scholarship of \$250.00 is awarded annually to a social work major. Recipients are selected on the basis of grade point average, financial need, breadth of general interest, and commitment to the field of social work. The recipient must have a minimum grade point average of 2.75.





# THE ACADEMIC PROGRAM

## Graduation Requirements

The programs of study presented on the following pages specifically note the current requirements for graduation. Each student is urged to take this into account in planning his course of study. Engineering majors may request the Bachelor of Science in Engineering degree as an alternative to the Bachelor of Arts degree when applying for graduation. Social Work majors receive the Bachelor of Social Work degree.

### Bachelor's Degrees

#### Courses

A minimum of 40 courses is required for graduation.

#### Grade Average

A grade point average of 2.00 or better is required for graduation.

#### Residence

To graduate, a student must present a minimum of ten courses earned at Dordt College. If only the minimum number of Dordt courses is presented, they must be earned in full-time residence during the final academic year.

Students, who have completed a minimum of thirty courses at Dordt College, may request special permission to complete up to ten of their final courses at another college. Those who have completed a minimum of twenty courses at Dordt College may request special permission to complete up to five of their final courses at another college.

#### Distribution Requirements

##### 1. General Education (Proficiency Requirements and 14 courses)

###### Proficiency Requirements

- a. General Education 10 - Introduction to College
- b. Physical Education

Each student must complete Physical Education 10 and four activities courses.

###### c. Computer Science Proficiency

Computer science proficiency may be demonstrated by one of the following:

- 1) Passing a computer literacy test administered by the Academic Skills Center. Learning modules are available to prepare students for the test.
- 2) Taking any computer science course at Dordt College. If a college course is taken to meet the requirement, it may be applied toward meeting the 40 course graduation requirement.

###### d. Mathematics Proficiency

Mathematics proficiency may be demonstrated by one of the following:

- 1) A percentile ranking of 70 or higher on the mathematics section of the ACT test.
- 2) Passing a comprehensive mathematics skills test.
- 3) Completion of any mathematics course at the college level. If a college course is taken to meet the requirement, it may be applied toward meeting the 40 course graduation requirement.

**General Education Course Requirements (14 courses)***Communication, Language, Literature Requirement (4 courses)*

English 101 .....	1
English 200 .....	1
Communication 110 .....	1
Foreign Language 201 .....	1

The language requirement may be met by taking a Foreign Language 201 course or Linguistics 201. Greek 301 also fulfills the requirement. Three or more years of high school foreign language also meets the requirement.

Prerequisites for the above courses:

- a. Two semesters of college foreign language or its equivalent. One year of high school foreign language is equal to one semester of college foreign language.
- b. For Foreign Language 201, the prerequisite must be in the same language. For Linguistics 201, the prerequisite courses may be in different languages.

*Arts Requirement (1 course)*

General Education 200 .....	1
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Students choose from a variety of sub-courses in art, drama, and music topics which are of interest to them.

*Natural Science Requirement (2 courses)*

Biology 101 or 102 .....	1
Physical Science 107 or 201 .....	1

The courses especially designed for this requirement are Biology 101 or 102 and Physical Science 107 or 201. For students who have had a good high school background in the sciences or who are in science programs or majors, there are options from one of the following sequences:

- |                            |                          |
|----------------------------|--------------------------|
| a. Agriculture 101 and 111 | e. Chemistry 103 and 104 |
| b. Biology 115 and 122     | f. Physics 115 and 116   |
| c. Astronomy 121 and 122   | g. Physics 125 and 126   |
| d. Chemistry 101 and 102   |                          |

If a student begins one of the physical science sequences, but does not choose to complete that sequence, the student must complete the science requirement by taking Biology 101 or 102. Similarly, if a student begins one of the life science sequences, but does not complete it, the student must take Physical Science 107 or 201.

*Social Science Requirement (2 courses)*

Psychology 201 or Sociology 201 .....	1
Economics 200, 201, 202, or Political Science 201 .....	1

*History, Philosophy, Theology Requirement (4 courses)*

History 100 .....	1
Philosophy 201 .....	1
Theology 101 .....	1
Elective .....	1

One course from History 212, 213, 214, Philosophy 320, 350, Theology, 201, 204.

*General Education Requirement (1 course)*

General Education 300 .....	1
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**2. Major and Cognate Courses (10-30 courses)**

A.B. General .....	10-30
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As listed for each department in the "Course of Instruction" section of the catalog.



A.B. *Secondary Education* . . . . . 10-22  
Requirements for a Teaching Major leading to certification and endorsement to teach in a major field are listed for each department in the "Course of Instruction" section of the catalog.

Note: Students who wish to be endorsed to teach in an additional subject area may elect to take a Teaching Minor in another department. Requirements for such minors are listed in the "Course of Instruction" section of the catalog.

A.B. *Elementary Education* . . . . . 15  
Requirements for the elementary teaching major leading to certification and endorsement may be found in the Teacher Education Program section on pages 43-44 of the catalog.

NOTE: A MAXIMUM OF TWO COURSES IN THE MAJOR FIELD MAY ALSO BE USED TO MEET GENERAL EDUCATION COURSE REQUIREMENTS—THE NUMBER OF COURSES REQUIRED IN THE ELECTIVE/PROFESSIONAL CATEGORY WILL BE INCREASED BY THE NUMBER OF "OVER-LAP" COURSES.

3. **Elective/Professional** . . . . . 0-18
  - A.B. *General*
    1. General Minors . . . . . 5-7
    2. Electives . . . . . 0-18
  - A.B. *Elementary Education*
    1. Teaching Minors . . . . . 6-8  
As listed on pages 67-69 of the catalog.
    2. Electives . . . . . 5-7
  - A.B. *Secondary Education*
    1. Professional . . . . . 9  
Professional requirements for secondary education are listed on page 43 of the catalog.
    2. Electives . . . . . 4-9

## Associate of Arts Degree (Two Year Program)

### Courses

A minimum of 20 courses is required for graduation.

### Grade Average

A grade point average of 2.00 or better is required for graduation.

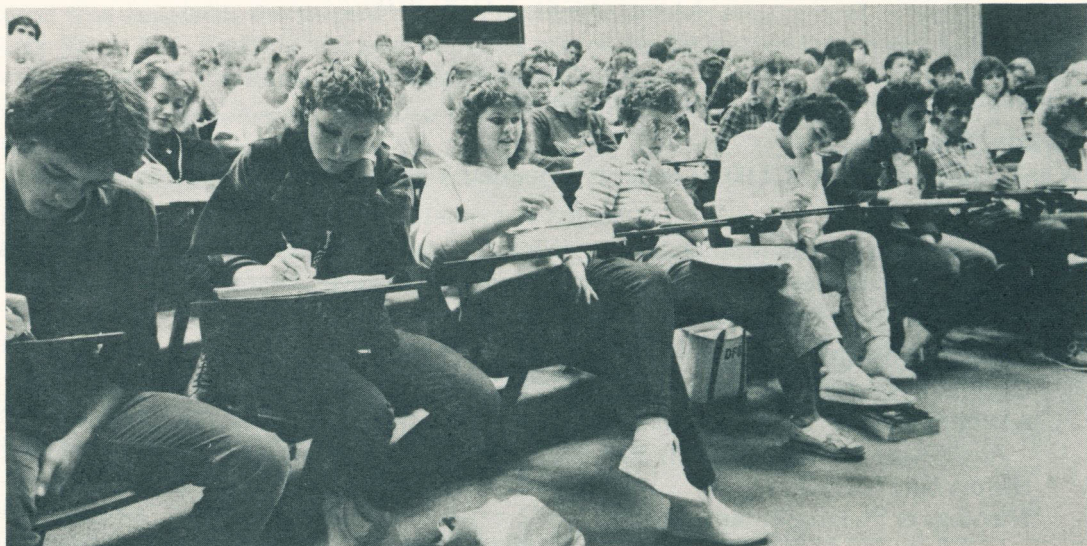
### Residence

A minimum of ten courses must be taken at Dordt College. A student may not receive both the A.A. and the A.B. degrees at the same commencement. However, credits earned in obtaining the A.A. degree may be applied toward the A.B. degree at any time.

### Distribution Requirements

1. **General Education** (8 courses)
  - A Writing Course . . . . . 1  
Any course from English 101, 301, 302, 303, 304, Communication 241.
  - History (any course) . . . . . 1
  - Theology or Philosophy (any course) . . . . . 1

- Science ..... 1  
Any course from the agriculture, astronomy, biology, chemistry, physical science, or physics departments.
- Mathematics or Computer Science (any course) ..... 1  
This requirement may be waived if the student has one of the following:  
a. A percentile ranking of 70 or higher on the mathematics section of the ACT test.  
b. Passed a comprehensive mathematics skills test.
- Humanities ..... 1  
Any course from the art, English, music, or theatre arts departments; or any foreign language/linguistics course.
- Social Sciences ..... 1  
Any course from the economics, political science, psychology, sociology, or social work departments.
- Elective ..... 1  
One additional course from any of the categories listed above.
- Physical Education 10  
General Education 10  
Computer Literacy  
This requirement may be met by passing a computer literacy test or by taking any computer science course at Dordt College.
2. **Area of Concentration** (6-12 courses)  
Each student must take an approved "Area of Concentration."
3. **Elective Courses** (0-6 courses)  
These courses are to be selected by the student to meet individual needs and goals.  
a. A second Area of Concentration may be worked out.  
b. Cognate type courses may be selected to support the Area of Concentration.  
c. Additional courses in the Area of Concentration may be selected.  
d. Courses which explore alternate career options may be selected.  
e. A wide distribution of courses may be chosen to provide a broad general background.





# ACADEMIC POLICIES

## Class Attendance

All students are expected to attend all class periods and all laboratory periods. Penalties for absence from class are left to the individual instructors. The instructor may lower a student's grade if there have been excessive unexcused absences. No allowed number of skips is permitted.

## Credits

All credit at Dordt College is given in semester hours. Each semester hour requires one period per week of class work and approximately two hours per week of preparation.

## Student Classification

Classification is made at the beginning of the academic year and is determined by the number of full courses successfully completed:

Sophomore .....	8 courses
Junior .....	18 courses
Senior .....	28 courses

## Student Load

The normal student load is five courses per semester. The minimum load for full-time student classification is four courses (twelve semester hours) per semester.

Under the conditions listed below, students may take more than five courses per semester. However, the decision to do so should be considered very carefully and should be made in consultation with an academic adviser. The following policies will govern overloads:

- Within the definition of a normal load, a student may take two approved one-hour courses in addition to the five-course load.
- No freshman may register for an overload in his first semester, and he may do so in the second semester only if he has a grade point average of 3.00 or better and has written permission from the Associate Academic Dean.
- A first semester freshman who is accepted on academic probation will not be allowed to take more than a four-course load.
- Sophomores, juniors, and seniors may register for a one-course overload if they have a cumulative grade point average of 2.00 or better.
- Students who wish to take more than one overload course per semester must have a cumulative grade point average of 3.00 or better and have written approval from the Associate Academic Dean.
- IN A STUDENT'S FOUR-YEAR PROGRAM, NO MORE THAN TWO OVERLOAD COURSES WILL BE APPLIED TO THE GRADUATION REQUIREMENT OF 40 COURSES.

## Class Visitor and Audit Policies

1. *Full-time Students* — will be allowed class visitor privileges with the permission of the instructor and the registrar if there is room in the class.
2. *Part-time Students* — will not be granted class visitor privileges. They will be permitted to audit classes at half the regular tuition rate.

## Dropping Courses

Changes in registration must be completed within one week after the opening date of each semester. Permission to change courses must be obtained from the Registrar of the College.

No course may be dropped without the permission of the Registrar of the College. Courses dropped without permission are recorded as "F". Courses dropped after the seventh day of classes of the semester are recorded as "WP" — withdrawn passing — if the student has a passing grade in the course when it is dropped and "WF" — withdrawn failing — if the student is failing when the course is dropped. All courses dropped after the tenth week of the semester will be recorded as "F".

## Repeating Courses

A student may repeat a course regardless of the grade earned. The initial grade will be ruled through and will not be used in calculating the grade point average. Only the last course will be listed for credit and the last grade will be used for calculating the grade point average.

## Withdrawal From School

A student who wishes to withdraw from school should see the Director of Counseling to obtain the necessary withdrawal form and receive permission to leave school. The form must be signed by the Director of Counseling, Dean of Students, Director of Admissions, Assistant to the Vice President for Business, and returned to the office of the Registrar. Refunds are based upon the date of such approval. Students who withdraw without permission will have grades of "F" recorded for all courses.

## Grading System

The following grading system is in effect at Dordt College:

Grade	Points Per Hour	Description
A	4	Exceptional
B	3	Good
C	2	Graduation Average
D	1	Unsatisfactory
F	0	Failure
P	0	Pass
WP	0	Withdrawn Passing
WF	0	Withdrawn Failing
AU	0	Audit



## Grade Point Average

College graduation requires that a student maintain a 2.00 grade point average. The G.P.A. is determined by dividing the total number of grade points by the total number of hours attempted.

A grade of "F" in a course will be computed in the student's grade point average (this refers to both regular courses and pass-fail courses); a student who withdraws from a course prior to the expiration of 10 weeks will not have the "WF" computed in his G.P.A..

## Enrollment in Other Schools

Students who are enrolled in Dordt College will not be permitted to take work for academic credit in the same semester in other schools without permission from the Associate Academic Dean. In no case, will students be permitted to carry a course load greater than that stated in the catalog.

## Pass-Fail Option

At Dordt College, students have the option of selecting courses on a pass-fail basis. This policy was adopted to provide more flexibility in program planning and to encourage students to explore many interests outside of their normal program without the worry of overload or about the effect of the course grade on his grade point average.

The following guidelines have been adopted to aid the students in the selection of P/F courses:

P/F courses may be taken by sophomores, juniors, and seniors.

Sophomores and juniors may take one P/F course per semester. Seniors may take one P/F course per semester except in such cases where the second P/F course will be the sixth course. A total of six P/F courses may be applied to the 122 hours required for graduation.

The grade of "P" will be calculated for grade point average purposes as follows: Hours attempted = 0; Credits = 2, 3, 4, etc.; Grade points = 0. Thus, a grade of "P" WILL HAVE NO EFFECT ON THE STUDENT'S GRADE POINT AVERAGE because the grade point average is determined by dividing the grade points by the hours attempted.

A grade of "F" will be calculated in the same way as an "F" under the normal grading system. Thus, a grade of "F" WILL REDUCE THE STUDENT'S GRADE POINT AVERAGE.

Students who receive a "P" in a P/F course may not retake the course on a graded basis.

The various departments have the prerogative to identify courses which should not be P/F.

Students may register for P/F in elective courses only. Excluded, therefore, are:

1. All general education requirements.
2. All requirements for majors and teaching minors.
3. All requirements for teacher education programs.

Students will select the P/F option during the add/drop period at the beginning of the semester. Changes from A-F to P/F grading and from P/F to A-F grading may be made on forms supplied by the Registrar's Office as follows:

1. P/F to A-F grading—anytime prior to last day of classes.
2. A-F to P/F grading—anytime during the first ten weeks of the semester.

## **Academic Standing**

A student is expected to maintain a 2.00 grade point average for graduation. When the cumulative grade point average is below the required minimum G.P.A. for good standing, the student will be placed on academic probation. The required minimum G.P.A. is dependent upon the number of credits completed. If no credits are achieved in a given semester, the student may be dismissed for academic reasons.

Normally a student may be on academic probation for only one semester. If the student does not raise the cumulative G.P.A. above the required minimum, special permission is required to register for further work at Dordt College. The Academic Policies Committee may grant such permission or dismiss the student. The Committee's decision is based on the circumstances involved in each individual case.

Students are notified by letter when they are placed on probation or dismissed for academic reasons.

A student dismissed for academic reasons may not apply for readmission before a lapse of one academic year.

## **Grade Reports**

First semester mid-term grades are reported to freshmen. These are not recorded on the permanent record but are for the purpose of indicating progress being made. Mid-term reports are obtained from the student's faculty adviser.

Final grade reports are released by the Registrar's Office as soon as possible after the close of each semester.

## **Official Transcripts**

One transcript is furnished free to each student. The fee for each additional transcript is \$1.00, payable in advance. Requests for transcripts should be submitted well in advance of the time they are required by the student. Transcripts will not be made during the week of registration or at the time semester grades and reports are being processed.

A transcript will be released only if all accounts have been settled with the College.

Transcripts are released only with the written permission of the student. They will not be sent to employers or other agencies without the permission of the student.

Official transcripts are not given directly to the student. All transcripts are sent directly to the school, employer, or agency specified by the student.

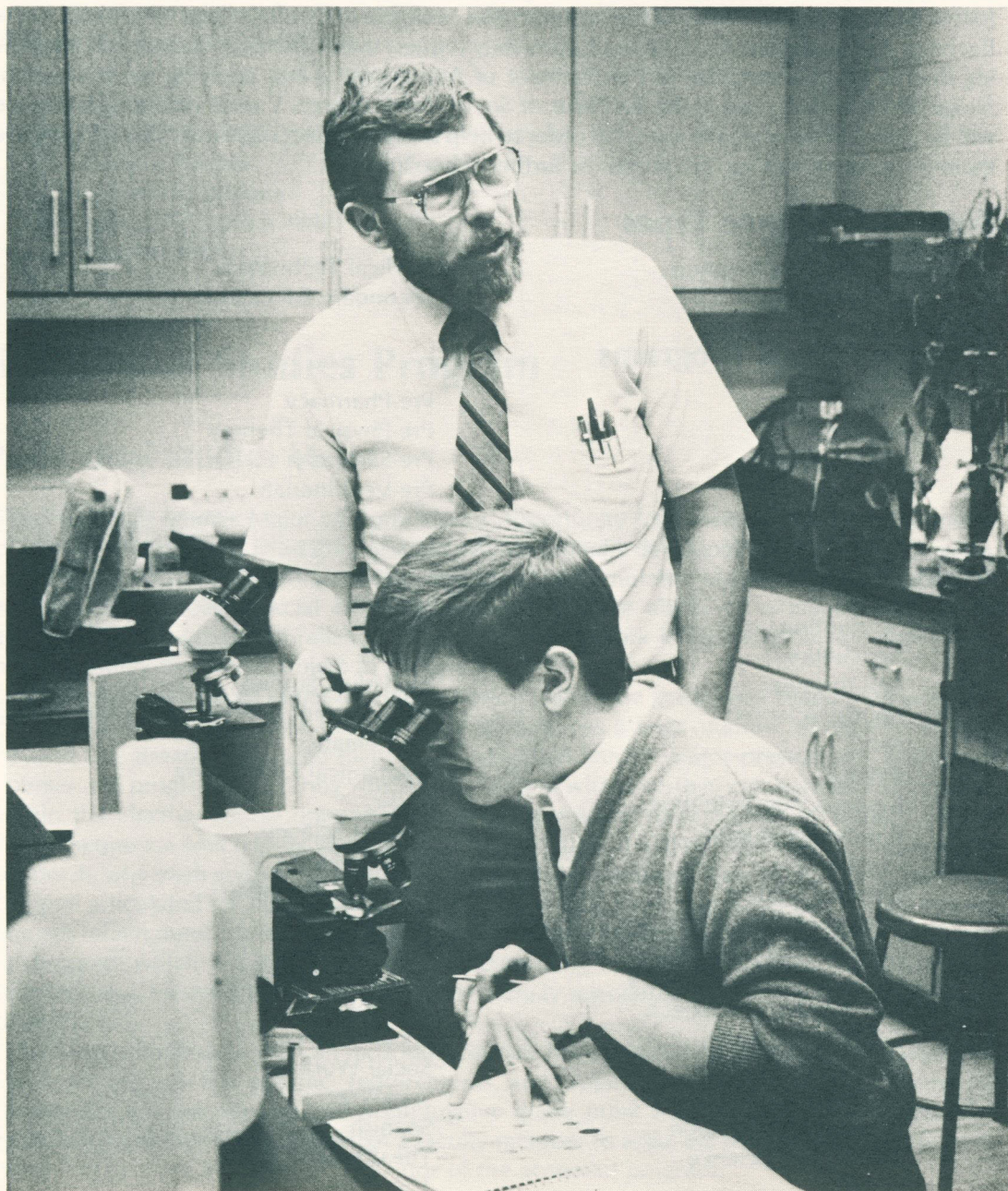
## **Graduation**

Students must make application for graduation the semester prior to their graduation.



## Graduation Ceremony

Graduation exercises are held only at the end of the spring semester. In order to participate in the graduation exercises, the student must have completed all course work for the degree. Requests for exceptions must be brought to the Academic Policies Committee via the Associate Academic Dean prior to February 1. There are no exceptions for the A.A. degree.





# PROGRAMS OF STUDY

## Bachelor's Degrees

The four-year program at Dordt College offers studies in many different areas of learning and affords an opportunity to prepare for a wide variety of careers. The courses outlined in the following pages suggest many of the opportunities available at Dordt College which lead to the Bachelor of Arts degree. Engineering majors may request the Bachelor of Science in Engineering degree as an alternative to the Bachelor of Arts degree when applying for graduation. Social Work majors receive the Bachelor of Social Work degree. Career planning assistance will be given by qualified personnel in order to help students select courses which will prepare them for areas of service, vocations, or further schooling.

### Four Year Degree Types

Elementary Education  
General

Medical Technology  
Secondary Education

### Preprofessional Programs

Pre-Dental  
Pre-Legal  
Pre-Medical  
Pre-Nursing  
Pre-Optometry

Pre-Pharmacy  
Pre-Physical Therapy  
Pre-Seminary  
Pre-Veterinarian

### Majors

Accounting  
Agriculture  
Agri-Business  
Animal Science  
Art  
Biology  
Business Administration  
Business Education  
Chemistry  
Classical Studies  
Communication-General  
Communication-Journalism  
Communication-Radio/TV  
Communication-Speech  
Computer Science  
Dutch  
Electrical Engineering  
Elementary Education  
Engineering Science  
English  
Environmental Studies

German  
History  
Individual Studies  
Management Information Systems  
Mathematics  
Mechanical Engineering  
Music  
Natural Science  
Philosophy  
Physical Education  
Physics  
Plant Science  
Political Science  
Psychology  
Social Science  
Social Work  
Sociology  
Spanish  
Theatre Arts  
Theology



# Associate of Arts Degree

The two-year program offers a wide range of educational options through professionally and occupationally designed programs or through a flexibly designed two-year sequence of relevant courses and educational experiences.

## Areas of Concentration

- Agriculture
- Data Processing
- General Studies
- Secretarial Science
- Special Education Aide
- Teacher Aide

# Individual Studies Program

## Individual Studies Major

The Individual Studies Major will provide an opportunity for specially qualified students to plan a specific program in an area of study not yet formally developed by the college as a major. The Individual Studies Major is intended for a limited number of students who are broadly matured and possess special characteristics such as the ability to articulate clearly and specifically their goals; self-reliance and the ability to work independently; self-motivation; and the ability to carry a project to completion.

The Individual Studies Major is a major option within the graduation requirements for the A.B.—General degree. Since every general student has a large number of elective options beyond the already structured majors, an Individual Studies Major presupposes a scope of courses and program structuring which goes beyond what a student can normally accomplish within the elective course options. Therefore, the student must submit, in writing, a forty-course sequence which together make a unified program. It will be the student's responsibility to specify why each course has been selected and to demonstrate how each course applies to the goal articulated for the Individual Studies Major. The forty-course sequence must include courses which meet the fourteen-course general education requirement; a fifteen-course major program which will insure depth of understanding and performance in the special area selected; and, eleven elective courses, each carefully selected to contribute to the special area of study.

Students who wish to plan an Individual Studies Major should see the Associate Academic Dean to discuss the specific requirements and application procedures (minimum requirements are ten courses and a cumulative grade point average of 2.50 or better). The Associate Academic Dean will assign a faculty member to assist the student in writing his proposal and to serve as faculty coordinator of the accepted program.

The Individual Studies Committee will review all proposals. The committee may approve, reject, or suggest modifications. The committee will also review Individual Studies Major programs periodically to evaluate the quality of work being done, the extent to which goals and requirements are being met, and the need for modifications of the original proposal. The committee has the right to terminate an Individual Studies Major at any time that it becomes apparent that the student is not qualified to continue or is not carrying out the program as originally approved.

## Individual Studies Courses

Individual Studies 391, 392 courses are offered by many departments to provide properly qualified students the opportunity to do intensive work in a subject not normally included in the regular course offerings or to pursue in depth a topic encountered as part of previous studies. The Individual Studies courses allow for greater flexibility of program as well as greater responsibility for the student in the learning process. Within the individual studies concept are included such options as research, practicum, independent study, readings, and performance. It is understood that the burden of responsibility for learning will be on the student—it is not a tutorial program.

Students who wish to enroll in an Individual Studies course must complete a Course Proposal form which may be obtained from the Associate Academic Dean. In the written proposal the student will describe in some detail the object or goal of the study, the procedures to be followed, the materials to be used, a projected product or outcome, and the method of evaluation. The proposal must be signed by the faculty project supervisor. Completed proposals must be returned to the Associate Academic Dean for approval by the deadline for adding courses. If the acceptability of an Individual Studies proposal is questioned, it will be brought to the Individual Studies Committee for final action.

If a proposed Individual Studies project is interdepartmental or falls within a department that does not have an Individual Studies option, the student may consult the Associate Academic Dean for permission to register for Individual Studies 391 or Individual Studies 392.

All 391, 392 Individual Studies Courses are governed by the following policies:

1. Only juniors and seniors will be allowed to take Individual Studies courses except, in unusual cases, others might be allowed to do so on petition to the Academic Policies Committee.
2. A student must have a cumulative grade point average of 2.25.
3. Not more than one Individual Studies course may be taken in a semester. No more than three Individual Studies courses may be applied to the forty-course graduation requirement.
4. Normally, an Individual Studies course should be completed in one semester, but, with advance notice, the course may be spread over the first and second semesters of the same year.
5. Individual Studies courses are open only to students who have had extensive previous course-work in the department.



# SOCIAL WORK PROGRAM

The Social Work Program is built upon a strong liberal arts base and foundational courses in the social sciences. The program is designed to equip students with the requisite knowledge and skills for beginning social work practice. The Social Work Program is of such a nature that admission to the program and completion of the major will require a formal two-part application process. Graduates will receive the Bachelor of Social Work degree.

## Admission to the Program

Application for admission to the program is required and should be filed during the second semester of the sophomore year prior to the spring break. Forms may be obtained from the chairperson of the Social Work Program Committee.

Completed application forms are reviewed by the Social Work Program Committee, and admission to the program is based on the following criteria:

1. A minimum cumulative grade point average of 2.20 with a minimum of 13 courses completed for credit.
2. A written statement of personal interest which indicates an ability to communicate effectively and a commitment to social service.
3. Acceptable physical and psychological health.

Upon review of the application, the committee will take one of the following actions:

1. Accepted - meets all criteria.
2. Accepted conditionally - some deficiencies but remediable.
3. Rejected - deficiencies beyond foreseeable remediation.

The student will receive written notice of status.

## Admission to the Professional Semester

The second part of the application process is an application to participate in the professional semester which includes an intensive field work experience. This application should be filed during the second semester of the junior year, prior to the spring break. Forms may be obtained from the chairperson of the Social Work Program Committee.

The application will be reviewed by the Social Work Program Committee, and admission to the professional semester will be based on the student meeting the following criteria:

1. A minimum cumulative grade point average of 2.50.
2. Completion of the required courses as listed under the major: Social Work - page 103 of the catalog.
3. Senior standing (anticipated).
4. An acceptable recommendation from a faculty member.
5. A written statement which demonstrates acceptable communication skills and a mature and knowledgeable interest in social work.
6. An interview which demonstrates the student's suitability to social work in terms of interest, knowledge, maturity, personality, and physical and mental health.

Upon review of the application, the committee will take one of the following actions:

1. Accepted - meets all criteria.

2. Accepted conditionally - some deficiencies but remediable.

3. Rejected - deficiencies beyond foreseeable remediation.

The student will receive written notice of status.

The Social Work Program Committee reserves the right to refuse admission to, or continuation in the program to any student who does not maintain a 2.50 grade point average, or, who in the judgement of the committee, has physical, mental, or personality handicaps which would be detrimental to the student and/or to the welfare of the clients to be served.

## Course Requirements

### B.S.W. - Social Work Program

General Education . . . . . 14 courses

These courses are the same for all students.

*Note: 1) Social Work majors must take Biology 101.*

*2) Spanish is the recommended foreign language.*

Major . . . . . 17 courses

Sociology 215 or 216 Fr.

Social Work 225 Fr.

Social Work 226 Soph.

Psychology 210 Soph.

Sociology 207 Jr.

Social Work 303 Jr.

Social Work 310 Jr.

Social Work 315 Jr.

Psychology 205 Jr.

Sociology 307 Sr.

Social Work 304 Sr.

Social Work 312 Sr.

Social Work 325 Sr.

Social Work 374 (counts as four courses) Sr.

NOTE: Social Work 374 (Field Work Experience) must be taken at Dordt College to receive graduation credit toward the Social Work Major.

Electives . . . . . 9 courses

## TEACHER EDUCATION PROGRAM

The program described in the 1987-88 catalog applies to those who will graduate prior to October 1, 1988. A description of the program for those who will graduate after October 1, 1988, is available from the Education Department.

To be eligible for recommendation for certification in teaching, students must be admitted to the Teacher Education Program and must complete the requirements for the Bachelor of Arts degree either in elementary education or in secondary education.



## Admission to the Program

Formal application for admission to the Teacher Education Program should be filed during the sophomore year. Application forms are distributed near the end of the first semester in the Education 201 classes. Forms also may be obtained from the Coordinator of the Education Department.

Completed applications are reviewed by the Teacher Education Committee. Criteria for admission to the Teacher Education Program are:

1. Completion of a minimum of 13 courses for credit.
2. A minimum cumulative grade point average of 2.20.
3. Passing scores on proficiency tests in English, spelling, and mathematics.
4. A recommendation following an interview with a member of the Education Department.
5. A recommendation from a faculty member of the applicant's choice.
6. Ability to communicate effectively and correctly.
7. Acceptable physical and psychological health.
8. Acceptable personal character: ethical, moral, and spiritual standards which may be expected of a Christian teacher.

After considering a student's application for admission to the Teacher Education Program, the Teacher Education Committee will take one of the following actions:

1. Accept for admission
  - a. The Committee judges that there are no recognizable deficiencies in any of the criteria for admission.
  - b. Conditionally admitted: the Committee judges that, although there is some deficiency, the student is able to remediate the deficiency and that conditional status in the program is appropriate.

2. Reject

The Committee judges that the applicant's deficiencies warrant rejection. The student may reapply for admission after one semester by contacting the chairperson of the Teacher Education Committee.

Each applicant is informed in writing of the committee's decision.

## Retention in the Teacher Education Program

The records of students in the Teacher Education Program are reviewed after each semester's work is completed. Consideration is given to each student's performance in professional courses, professional experiences, and in the teaching minors, majors and/or approval areas. A cumulative grade point average of 2.20 is required for retention and a 2.40 must be achieved prior to student teaching.

If the student does not continue to meet the standards for admission to the program, the Teacher Education Committee may place the student in a conditional status or dismiss the student from the Teacher Education Program. If such action is taken, the student will meet with a member of the committee. The reasons for the change in status will be explained.

Consideration for re-admission can be given one semester after dismissal. The student, however, must initiate re-admission procedures by contacting the Chairperson of the Teacher Education Committee.

## Admission to Student Teaching

Student teaching is required of all students preparing for certification. Application for student teaching must be made toward the end of the student's junior year. To qualify for student teaching, a student must meet the requirements listed below:

1. Elementary education students
  - a. Completion of a minimum of 28 courses for credit applicable to an approved program in teacher education.
  - b. Unconditional status in the Teacher Education Program.
  - c. Completion of Education 201, 202, 215, 105/221, 321/322, 323.
  - d. Achievement of a minimum cumulative grade point average of 2.40.
  - e. Recommendation on the basis of performance in professional courses, professional experiences, in approval areas and teaching minors.
2. Secondary education students
  - a. Completion of a minimum of 28 courses for credit applicable to an approved program in teacher education.
  - b. Unconditional status in the Teacher Education Program.
  - c. Completion of Education 201, 202, 215, and methods in the major area of study.
  - d. Achievement of a minimum cumulative grade point average of 2.40.
  - e. Recommendation on the basis of performance in professional courses, professional experiences in the major, and other approval areas.
3. Students intending to complete a program for a second endorsement requiring a second student teaching assignment within the four-year college program must have a minimum grade point average of 3.00 to qualify for the second assignment.
4. To qualify for Education 376, students must complete all requirements of the elementary program plus Education 301, 302, 305, 306, 309, and 327.

Application for student teaching must be approved by the Teacher Education Committee. Student teaching must be taken at Dordt College to receive graduation credit and recommendation for certification.

## Requirements for Institutional Recommendation for Certification

To qualify for certification, a student must receive the recommendation of the Teacher Education Committee and must meet all requirements for the A.B. degree. To receive the recommendation of the Committee, elementary and secondary education students must meet the following requirements:

1. Unconditional status in the Teacher Education Program.
2. Completion of an approved program in teacher education.
3. Achievement of a minimum cumulative grade point average of 2.40.
4. Successful completion of a student teaching experience.



## Course Requirements for Teacher Education Degrees

The requirements for degrees in education are listed below with the professional education courses in their recommended sequences. They apply to 1988 graduates only.

### A.B. — Secondary Education

General Education ..... 14 courses

These courses are the same for all students.

Professional Education ..... 8 courses

Education 201 Introduction to Education Soph.

Education 202 Practicum in Education Soph.

Education 215 Educational Psychology Jr.

Methods Sr.

Education 364 Issues in Education Sr.

Education 374 Student Teaching—Secondary Sr.

Notes:

1. Education 374 is counted as three courses.

2. A human relations course or fifteen units of human relations credit is a professional requirement for Iowa certification.

Major ..... 10-22 courses

The teaching majors, minors, and approval areas are identified in the alphabetical list of course descriptions in the catalog.

Electives ..... 0-10 courses

Students may use their electives to earn a Secondary Teaching Minor with its approval area. The secondary minor is optional.

### A.B.—Elementary Education

General Education ..... 14 courses

These courses are the same for all students.

Professional Education

The professional education component is included in the major listed below.

Major ..... 15 courses

Education 105 Elementary School Health and Physical Education Fr. ] Methods I

Education 221 Teaching Social Studies in the Elementary School Fr. ]

Education 201 Introduction to Education Soph.

Education 202 Practicum in Education (an additional practicum  
will be required of students graduating in 1989) Soph.

Education 223 Teaching Bible in the Elementary School Soph./Jr. ] Methods II

Education 322 Teaching Arithmetic in the Elementary School Soph./Jr. ]

Education 301 Introduction to Exceptional Individuals Soph./Jr.

OR

Education 303 Instructional Modifications for Students  
With Learning Difficulties Soph./Jr.

Education 215 Educational Psychology Jr.

Education 323 Teaching Reading in the Elementary School Sr.

Education 324	Teaching Language Arts in the Elementary School	Sr.	] Methods III
Education 325	Teaching Science in the Elementary School	Sr.	
Education 364	Issues in Education	Sr.	
Education 372	Student Teaching—Elementary	Sr.	

Methods I, II, and III each comprise one course toward meeting graduation requirements. Education 324, 325, 364, and 372 comprise the professional semester of the senior year. Student teaching is counted as three courses toward graduation.

In order to complete the major of fifteen courses, three electives must be selected from the list of courses:

Communication 212 Oral Interpretation  
 Education 205 Children's Reading Material  
 Education 211 Art for the Elementary Teacher  
 Education 232 Interpersonal Communication for the Elementary Teacher  
 Education 262 Creative Dramatics for Children  
 Education 303 Teaching Children With Learning Difficulties  
 Education 311 Materials of Elementary Music Education  
 Education 330 Human Relations in Education  
 Education 343 History and Philosophy of Education  
 English 336 English Grammar  
 Geography 201 Introduction to Geography  
 History 201 American History  
 History 202 American History  
 Mathematics 109 Mathematics for the Elementary Teacher  
 Political Science 212 American Government and Politics  
 Psychology 205 Developmental Psychology I

Notes:

1. The elective courses must not be part of the teaching minor.
2. Iowa teachers need History 201, or 202, or Political Science 212 to be re-certified.
3. A human relations course or fifteen units of human relations credit is a professional requirement for Iowa certification.
4. Education 372 is counted as three courses.

Minor . . . . . 6-8 courses

Each elementary education student must complete a minor in one of the fields listed as teaching minors in the course description section of the catalog.

NOTE:

1. For most minors an approval area is awarded which permits the teaching of the subject at the ninth grade level. The approval area is not required for K-8.
2. The minors in general science, mathematics, language arts, and social science represent the basic curricular areas in the elementary school.
3. The minors in art, music, and physical education permit teaching the subject matter outside of the self-contained classroom.
4. Students completing the art minor may substitute Art 350 for Art 211 in their elementary education major.

Electives . . . . . 4-7 courses



# OFF-CAMPUS PROGRAMS

## American Studies Program

The American Studies Program in Washington, D.C. draws students from Christian colleges throughout the United States. Students participating in the program spend a semester in the nation's capital attending academic classes, serving as interns in government and nongovernmental agencies, and living in a unique Christian community. The program is open to students majoring in any field. For more information and application forms contact Dr. King.

## AuSable Institute of Environmental Studies

Dordt is one of 19 Christian colleges participating in the summer environmental studies programs offered at AuSable Institute near Mancelona, Michigan, an area rich in land, water, and biotic resources. As many as two courses can be taken at each of two summer sessions and applied toward meeting Dordt graduation requirements. Both the AuSable courses and home campus courses can be used to meet requirements for Certificates issued by AuSable in the following areas: Naturalist, Land Resources Analyst, Water Resources Analyst, and Environmental Analyst. Semester internships in environmental education are also offered during the fall and winter semesters.

Course offerings for the May term and summer sessions are as follows:

### May Term

AuSable 295 Natural History in Spring

AuSable 305 Ornithology

### Session I

AuSable 301 Land Resources

AuSable 303 Natural Resources Practicum

AuSable 311 Field Botany

AuSable 321 Animal Ecology

AuSable 322 Aquatic Biology

AuSable 390 Directed Individual Study

### Session II

AuSable 302 Water Resources

AuSable 304 Natural Resources Practicum

AuSable 312 Insect Taxonomy and Ecology

AuSable 332 Environmental Chemistry

AuSable 342 Fish Biology and Ecology

AuSable 391 Directed Individual Study

In alternate summers there is a Program in Advanced Natural History offered to advanced students. For specific courses in these programs and general information contact Dr. Vander Zee or Mr. Hodgson at Dordt College.

AuSable Fellowships and Grants-in-aid are available to Dordt students (see scholarship section of the catalog).

## Chicago Metropolitan Center Program

Selected juniors and seniors may register for a semester in the Chicago Metropolitan Center Program.

This program is under the supervision of Trinity Christian College. Each student spends several days in an on-the-job learning experience in such fields as business administration, social work, psychology, journalism, and government. In addition, each student participates in a metropolitan seminar, a values seminar, and a social research seminar.

## **German Overseas Program**

Dordt College sponsors an academic program in Germany in conjunction with Dordt's Netherlands Program and the Lessing Kolleg or the Goethe Institute. The focus of the program is gaining facility in the German language. Applicants need a 2.50 grade point average and completion of German 201. The program is designed for sophomores, juniors, and seniors. A screening committee will review all applications.

## **Iowa Legislative Internship Program**

Selected juniors and seniors may register for a semester in the Iowa Legislative Internship Program. The student is assigned to one of the Iowa legislators who is responsible for using him as an assistant. In addition to the work assigned by the legislator, each student completes an Individual Study project which capitalizes on his work experience and the many resources available in Des Moines.

## **Latin American Studies Program**

Dordt College, in conjunction with the Christian College Coalition, offers a semester (or full year) program in San Jose, Costa Rica. The purpose of the program is to offer a Christ-centered cross-cultural program to deepen the students' understanding of the Lordship of Jesus Christ in an international context and to equip them for service in the Third World. Participation in the program is open to selected juniors and seniors with a minimum grade point average of 2.75 and at least one year of college-level Spanish courses. Students should contact Dr. Apol for information and application forms.

## **Semester in Spain**

In cooperation with Calvin College, Dordt College offers a second semester study program in Spain. The program is open to upperclassmen who are majoring or minoring in Spanish and who have taken at least two years of college-level Spanish courses. Students should contact Dr. Apol for information and application forms.

## **Study Abroad Program in the Netherlands**

Dordt College offers a unique opportunity to spend the spring semester off-campus in the Netherlands in a unique learning situation, while earning five courses of credit. Courses are offered in Dutch language and literature, Dutch art and architecture, Dutch culture and society, the history of the Low Countries, International Marketing, and Individual Studies.

Applicants need a 2.50 grade point average and completion of at least a semester of college Dutch or its equivalent. The program is designed for sophomores, juniors, and seniors. A screening committee will review all applications. Students should contact the coordinator of the Foreign Language Department for information and application forms.



## Summer Study Program in Mexico

High school and college students may apply to study at the Romance Language Institute in Durango, Mexico. Dordt College students have the opportunity to serve as chaperons for the high school students. Classes are held at all levels, from beginning Spanish to an M.A. program. The Dordt College program in Mexico is for three weeks each summer. College students can earn one course credit (3 semester hours). Students should contact Mrs. Huisman or Dr. Apol for information and application forms.

## Preparation For Graduate Study

Dordt College, through its major departments, prepares students for graduate level work. Students who plan to do graduate work should consult faculty members in the major department when selecting courses in the major field of study or in related supporting subjects. Courses should be carefully selected to meet the specific requirements of the graduate school which the student plans to enter. The Placement Office maintains a file of graduate school catalogs which may be used by faculty members and students.





# COURSES OF INSTRUCTION

## Course Descriptions

### Accounting

General Major— Business Administration 201, 202, 301, 302, 310, 311, 312, 313, 314, 315, 351; two elective courses from business administration; Economics 201, 202; one elective course from economics; one course from Computer Science 101, 103, 111; Mathematics 107.

### Agriculture

General Majors—

Core (common to all four majors)—

Agriculture 101, 111, 121, 361, 371; Biology 122; Chemistry 101; one course from Economics 200, 201, 202. Note: Credit will not be given for both Economics 200 and 201 or 202. Agri-Business majors must take Economics 201.

Agriculture: Core; four courses from Agriculture 232, 233, 234, 235, 236, 332, 334, 337, Biology 213, 302; three courses from Agriculture 201, 251, 255, 311, 313, 315, Biology 213, 217, 319; Chemistry 102.

Agri-Business: Core; Agriculture 312; Business Administration 201, 202, 205, 301; Economics 202; two elective courses from business administration or economics.

Animal Science: Core; Agriculture 232, 236; one course from Agriculture 233, 235; one course from Agriculture 234, 332, 334; one course from Agriculture 321, 337; Biology 213, 302; Chemistry 102.

Plant Science: Core; Agriculture 201, 311, 321; one course from Agriculture 251, 255; one course from Agriculture 313, 315; Biology 319; one course from Biology 213, 217; Chemistry 102.

Area of Concentration (Associate of Arts)

Agriculture 101, 111, 121, 201; one course from Agriculture 233, 235, 237; one course from Agriculture 232, 234, 236; one course from Agriculture 251, 255; Biology 101; Chemistry 101; Communication 110; Computer Science 101.

### 101 Introduction to Animal Science (4)

Management, physiology, breeding, feeding, and marketing of cattle, swine, sheep, poultry, and other animals. Three lectures and one three-hour laboratory period per week.



**111 Introduction to Plant Science (4)**

This course deals with the production, management, and utilization of the major groups of economically important plants—grain crops, forage crops, fruits, vegetables, ornamentals, fibers, and stimulants. The effects of soil, climate, and plant pests are considered in relation to the management of various cropping situations. Three lectures and one three-hour laboratory period per week.

**121 Introduction to Farm Operation and Management (3)**

Stewardship and economic decision-making in operation of a farm business. Setting goals, organizing the farm business, record-keeping, budgeting and other basic planning techniques, credit, taxes, basic investment analysis, and marketing. Two lectures and one three-hour laboratory period per week.

**201 Nature and Properties of Soils (3)**

A comprehensive introduction to the field of soil science with emphasis on scientific principles and their application in solutions to practical soil management problems. Two lectures and one three-hour laboratory period per week. Prerequisites: Agriculture 111; Chemistry 101.

**232 Principles of Animal Nutrition (3)**

The evaluation, composition, and values of feedstuffs as they relate to animal diet formulation will be considered. Diets will be formulated for the major livestock species and differing digestive systems. Two lectures and one three-hour laboratory period per week. Prerequisites: Agriculture 101; Chemistry 101.

**233 Principles of Dairy Science (3)**

Dairy reproduction, physiology, lactation, breeding, nutrition, and genetics will be discussed with an emphasis on scientific principles and their application to dairy science. Two lectures and one three-hour laboratory period per week. Prerequisites: Agriculture 232; Chemistry 101.

**234 Principles of Animal Health (3)**

Animal care and facility sanitation will be discussed focusing on care, disease prevention, disease detection, animal treatment, pharmacology, and health programs. Three lectures per week. Prerequisites: Agriculture 101, 232; Chemistry 101. Recommended: Biology 302.

**235 Principles of Swine Science (3)**

A study of swine care and management, physiology, diseases, equipment, reproduction, and nutrition. Two lectures and one three-hour laboratory period per week. Prerequisites: Agriculture 101; Chemistry 101. Recommended: Agriculture 232.

**236 Principles of Livestock Evaluation (3)**

The evaluation of livestock species including beef, swine, dairy cattle, and sheep. The evaluation and judging will include live animal, gross anatomy, and carcass evaluation. Two lectures and one three-hour laboratory period per week. Prerequisites: Agriculture 101.

**237 Animal Production and Management (3)**

The study of a particular animal species from a production and management orientation. One or two lectures and three to six hours laboratory experience per week. Prerequisites: Agriculture 101, 121; enrollment in the Associate of Arts program. Note: Credit will not be given for both Agriculture 237 and Agriculture 337.

**251 Horticultural Plants (3)**

The study of greenhouse, vegetable, and ornamental plants. The physiology, culture, and aesthetics of horticultural practices will be examined. Three lectures per week. Prerequisite: Agriculture 111 or Biology 115.

**255 Forage Crop Management (3)**

The production and management of crops for livestock feed are considered in terms of establishment, growth, harvesting, preservation and quality. Primary emphasis is given to the value of major temperate grasses and legumes as livestock feed in terms of energy, protein, and other nutritional components. Three lectures per week. Prerequisites: Agriculture 101, 111.

**311 Soil Fertility (3)**

An integrated discussion of soil-crop yield relationships with emphasis on the soil as a source of mineral nutrients for crops and the role of fertilizers and manure in crop production. Three lectures per week. Prerequisites: Agriculture 111, 201; Chemistry 101, 102.

**312 Marketing of Agricultural Products (3)**

An analysis of agricultural marketing systems, factors determining agricultural prices, and farmer marketing management. Setting marketing goals are covered, government price institutions, contract and futures markets, and marketing under risk and uncertainty. Three lectures per week. Prerequisite: Agriculture 121.

**313 Plant Protection—Weed Science/Plant Pathology (3)**

An introduction to the principles of weed science and plant pathology. Attention will be given to identification, morphology, taxonomy, physiology, ecology, life cycles, and appropriate control methods of major weed species and diseases. Three lectures per week. Prerequisites: Agriculture 111, 201; Biology 115; Chemistry 101, 102.

**315 Entomology and Pest Management (3)**

An introduction to entomology and insect-pest management including insect biology, taxonomy, ecology, life cycles, and conventional and non-conventional control of agricultural insect pests. Three lectures per week. Prerequisites: Agriculture 111; Biology 115, 122; Chemistry 101, 102.

**321 Advanced Farm Operation and Management (3)**

Christian concepts of stewardship and justice in agriculture, advanced planning techniques, investment analysis, agricultural finance, decision-making under risk and uncertainty, intergenerational transfer of the farm business, governmental regulation and promotion of agriculture. Three lectures per week. Prerequisites: Agriculture 121; one course from Economics 200, 201, 202.

**332 Advanced Animal Nutrition (3)**

Nutritional physiology for ruminants and monogastrics will be discussed dealing with the various nutrients and their role in animal nutrition. Advanced ration formulation will be discussed as it relates to the different digestive systems. Three lectures per week. Prerequisites: Agriculture 232; Chemistry 102.

**334 Physiology and Breeding of Farm Animals (3)**

An application of the principles of physiology and genetics to the major classes of livestock. Physiology of reproduction, milk production, and ruminant digestion will receive attention. Heritability, selection methods, and mating systems will be studied. Three lectures per week. Prerequisites: one course from Agriculture 231, 233, 235; Biology 213; Chemistry 101, 102.

**337 Enterprise Management (3)**

Management of a major agricultural enterprise will be discussed. One to two lectures and three to six hours of laboratory activity at the ASC per week. Prerequisites: Agriculture 232; one course from Agriculture 231, 233, 235; Chemistry 101, 102; enrollment in one of the Bachelor of Arts programs. Note: Credit will not be given for both Agriculture 237 and Agriculture 337.

**341-348 Special Topics (3)**

These courses vary from year to year, and are designed to meet special student interests and to utilize staff strengths and the talents of experts in the community. Each course will cover material not usually treated in regularly scheduled courses.

**361 Senior Seminar (3)**

An integration of departmental courses, research, and analysis of current topics with emphasis on Christian perspective for persons involved in agriculture. Issues will include government policies, world hunger, the family farm, meat production, and others. Three lectures per week. Prerequisite: Senior standing in the Agriculture Department.

**371 Practicum (3)**

Students are given opportunity to apply the principles of agriculture and business in an off-campus assignment. Ten hours per week at an off-campus site. Prerequisite: senior standing in the Agriculture Department.

**391 Individual Studies (3)**

Open to qualified juniors and seniors with permission from the department. See catalog section "Individual Studies" for application procedures and policies governing individual studies.

**392 Individual Studies (3)**

Same as Agriculture 391.



## Art

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- General Major— Art 201, 202, 207, 208, 370; one course from Art 216, 218, 220; one course from Art 225, 228, 230; one course from Art 216, 218, 220, 225, 228, 230; two courses from Art 302, 316, 318, 320, 325, 328, 330; one course from Art 341, 348, 391, 392; one elective course in art; participation in an exhibit in the senior year.
- Teaching Major— Art 201, 202, 207, 208, 370; one course from Art 216, 218, 220; one  
(Secondary) course from Art 225, 228, 230; one course from Art 216, 218, 220, 225, 228, 230; two courses from Art 302, 316, 318, 320, 325, 328, 330; one elective course in art; participation in an exhibit in the senior year.  
*Approval Area* (For vertical certification Education 211 and 350 are also required.) 34—Art
- Teaching Minor— Art 201, 202; two courses from Art 216, 218, 220, 225, 228, 230; one  
(Secondary) course from Art 207, 208; two elective courses in art; Education 350.  
*Approval Area*  
34—Art
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### 201 Design Theory (3)

Discovery of two and three dimensional design through the use of the basic art elements: line, shape, value, color, texture, and space. The course is intended to develop a visual vocabulary and an imaginative approach to design. Required of all Art majors and minors.

### 202 Drawing (3)

Acquiring the basic skills of drawing through an objective investigation of reality. Common media and tools are used. Required of all Art majors and minors.

### 207 Art History (3)

An introduction to the history of the visual arts. A survey of the history of architecture, painting, and sculpture beginning with Ancient Cave Painting up to the Renaissance. Open to sophomores, juniors, and seniors.

### 208 Art History (3)

An introduction to the history of the visual arts. A continuation of Art 207 beginning with the Renaissance through the twentieth century. Open to sophomores, juniors, and seniors.

### 216 Sculpture (3)

An introduction to the various methods and materials used in developing three dimensional form including wood, metal, and plaster. The student becomes involved in both additive and subtractive methods of working. Class size is limited.

### 218 Ceramics (3)

An introduction to clay and the basic process of slab, pinch, coil and wheel-thrown constructions. Class size is limited.

### 220 Fibers (3)

An introduction to a variety of techniques and processes dealing with fibers and textiles from a creative point of view. Class size is limited.

### 225 Painting (3)

A study of the tradition in painting, emphasizing techniques and methods of communicating ideas visually. Work will give opportunity to experiment in various subjects and techniques including water-color, acrylics, and tempera. Open to sophomores, juniors, and seniors.

### 228 Printmaking (3)

An introduction to some basic printmaking methods: serigraphy, linocuts, woodcuts, and collograph. Class size is limited.

**230 Photography (3)**

An exploration of black and white photography as an art form. The student must provide his own 35 mm camera. Class size is limited.

**302 Advanced Drawing (3)****316 Advanced Sculpture (3)****318 Advanced Ceramics (3)****320 Advanced Fibers (3)****325 Advanced Painting (3)****328 Advanced Printmaking (3)****330 Advanced Photography (3)****332 Advanced Studio (3)****333 Advanced Studio (3)**

**NOTE: Courses 302-330 are continuations of the introductory media courses. Each 300 level media course has the 200 level media course as its prerequisite.**

**341-348 Special Topics (3)**

These courses vary each year and are intended to utilize various staff talents and communal expertise while involving the student in in-depth studies of art and art history.

**370 Senior Seminar in Art (3)**

A critical examination of contemporary problems and trends in the field of art. The course will include readings, discussions, a paper or presentation, critique of current exhibitions, and the senior art show.

**391 Individual Studies (3)**

Open to qualified juniors and seniors with permission from the department. See the catalog section "Individual Studies" for application procedures and policies governing individual studies.

**392 Individual Studies (3)**

Same as Art 391.

## **Astronomy**

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General Minor: Planetary Science—

Astronomy 121; Geology 110, 220; three additional courses in astronomy.

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**121 Solar System Astronomy (4)**

An advanced descriptive introduction to planetary astronomy, with emphasis upon recent discoveries concerning planets and satellites, and their implications for an improved understanding of our Earth. Theories concerning the origin of the Solar System will also be discussed. Three lectures a week, plus a weekly laboratory/discussion or observing session. Prerequisite: one year of high school algebra.

**122 Stellar and Galactic Astronomy (4)**

An advanced descriptive introduction to stellar and galactic astronomy. Discussion of the kinds of stars, their origins, energy production, and final collapse; the nature of nebulae, star clusters, black holes, galaxies and quasars; modern cosmology; extra-terrestrial life. Students will undertake a variable star observing project. Three lectures a week; occasional observing sessions (weather permitting).

**310 The Giant Planets (3)**

The nature and structure of the four giant hydrogen planets (Jupiter, Saturn, Uranus, Neptune), their rings and satellite systems. Conducted as a weekly evening seminar, offered every third spring semester. Prerequisites: Astronomy 121; Geology 110, 220.



**320 The Planet Mars (3)**

The nature and structure of Mars and its' satellites; phenomena of the Martian atmosphere; the possibilities of life on Mars. Frequent comparisons with Earth, Moon, and other planets will be made. Conducted as a weekly evening seminar, offered every third spring semester. Prerequisites: Astronomy 121; Geology 110, 220, or equivalent with permission of instructor.

**330 The Minor Planets (3)**

The study of minor planets (asteroids) in terms of their orbital distribution, physical composition, and their value in the study of the history of the Solar System. Conducted as a weekly evening seminar, offered every third spring semester. Prerequisites: Astronomy 121; Geology 110, 220, or equivalent with permission of instructor.

## Biology

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General Major— Biology 115, 122, 200, 213; six elective courses in biology numbered 200 or above, Biology 355, 391 strongly recommended; Chemistry 103, 104, 201, 202, 205.

Teaching Major—  
(Secondary) Biology 115, 122, 200, 213, 391; five elective courses in biology numbered 200 or above; Chemistry 103, 104, 201, 202, 205.

*Approval Areas*

63—Biology

64—Chemistry

65—General Science (with Physics 115, 116)

Teaching Minor—  
(Secondary) Biology 115, 122, 200, 213; two elective courses in biology numbered 200 or above.

*Approval Area*

63—Biology

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**101 Biological Science (3)**

A study of the nature of organisms and their functioning based on an understanding of how the human body functions. Some bioethical questions (such as abortion and aging) are explored. The course also provides a brief survey of the plants and animals and a Christian perspective on the biotic world. A biology course designed for non-majors.

**102 Biological Science (3)**

A study of the functioning of organisms in the major terrestrial and aquatic environments. This ecological perspective emphasizes the interactions among the organisms and their physical environment. This includes the effect and responsibility man has in the ecosystem in which he has been placed. The biology of different types of organisms and the major biomes (environments) in which they can be found are studied. Past fossil communities and genetics are also covered. A biology course designed for non-majors.

**115 General Botany (4)**

An introductory study of the anatomy, physiology, taxonomy, and ecological importance of major plant groups. Three lectures and one laboratory period of three hours per week.

**122 General Zoology (4)**

A study of the anatomy, physiology, ecology, taxonomy, and economic importance of the invertebrate and chordate animals. Three lectures and one laboratory period of three hours per week.

**200 Principles of Ecology and Field Biology (3)**

An introduction to ecological studies including topics in ecosystem and community structure, nutrient cycling, energy flow, limiting factors, and population interrelationships. The laboratory will emphasize study of local flora and fauna via field work. At least two Saturday field trips. Two lectures and one laboratory period per week or three lectures per week. Prerequisite: one year of college biology.

- 201 Human Anatomy and Physiology (3)**  
An introduction to the study of human biology, with emphasis on the structures and functions of the organ systems of man. Two lectures and one laboratory period of two hours per week. Prerequisite: Biology 122. Freshman pre-nursing students with permission.
- 202 Human Anatomy and Physiology (3)**  
A continuation of Biology 201.
- 204 Environmental Biology (3)**  
A study of interrelationships within the biosphere between all components. A second level ecology course emphasizing stewardship and human impact on the biotic environment. Three meetings per week in seminar/discussion format. Laboratory or field work arranged occasionally. Prerequisite: Biology 200.
- 210 Nutrition (3)**  
A study of the essential nutrients and their functions. Attention will be given to meal planning, weight control, and diets for special conditions. Three lectures per week. Open to pre-nursing and secondary or elementary education students only.
- 211 Invertebrate Zoology (4)**  
A study of the taxonomy, anatomy, life history, and ecology of major groups of invertebrates. Three lectures and one laboratory-field period of three hours per week. Prerequisite: Biology 122.
- 213 Genetics (3)**  
An introduction to the principles of inheritance and variation in plants, animals, microbes, and man. Three lectures per week. Prerequisites: Biology 115, 122, or permission of instructor.
- 214 Genetics with Laboratory (4)**  
An introduction to the principles of genetics using the lectures of Biology 213, with additional experience in the laboratory with live organisms. This course is designed for students who intend to go on to graduate school, medical school, secondary education, or for those students who desire more work in genetics than what is offered in Biology 213. Prerequisites: Biology 115, 122.
- 217 Plant Morphology (4)**  
A comparative study of the structure, reproduction, life habits, and relationships of the major plant groups. Three lectures and one laboratory period of three hours per week. Prerequisite: Biology 115.
- 227 Paleontology (3)**  
An introduction to the major fossil plants and animals, and the environments (paleoecology) in which they are found. Three lectures, or two lectures and a two hour laboratory per week. The course includes several Saturday field trips and one weekend field trip to the Pella area. Prerequisite: Biology 122 or permission of instructor.
- 251 Evolutionism (3)**  
A study of the theories of origins, of the history and evidences of evolutionism, and analysis of contemporary ideology. Open to all junior and senior students.
- 301 Embryology (3)**  
A study of the development of representative vertebrates such as the frog, chick, and pig. Two lectures and one laboratory period of three hours per week. Prerequisite: Biology 122.
- 302 Microbiology (3)**  
A study of the form, structure and classification of various micro-organisms. Emphasis on bacteria, general laboratory technique, culture, media, sterilization, germicidal action of disinfectants, and staining methods. Includes information on antibodies and antigens, host-antigen reaction, bursal and thymic influences on lymphoid cells, humoral and cellular response mechanisms, and non-specific host defense mechanisms. Two lectures and one laboratory period per week. Prerequisites: Biology 115, 122, or permission of instructor.
- 304 Histology (4)**  
A study of the microscopic anatomy of animal tissues and organs, with emphasis on the relationship between structure and function. Two lectures and two laboratory periods of two hours per week. Prerequisite: Biology 122.



**312 Comparative Chordate Anatomy (4)**

A comparative study of the anatomy of chordate animals. Two lectures and two laboratory periods of three hours per week. Prerequisite: Biology 122.

**319 Plant Physiology (3)**

A study of the basic functional aspects of plant growth, development, and reproduction. Lecture topics will include water relations, nutrient relations, translocation, photosynthesis, flowering, fruiting, seed germination, growth, development, and phyto-hormones. Two lectures and one three hour laboratory period per week. Prerequisites: Biology 115; Chemistry 103, 104.

**335 Cell Biology (3)**

A study of the morphology and physiology of the cell, its organelles, and its constituents. Three lectures per week. Prerequisites: Biology 115, 122; Chemistry 103, 104.

**341-348 Special Topics (3)**

These courses will vary from year to year and are offered as student demand and instructor availability permit. They are designed to open additional areas of biological inquiry.

**355 Research (1)**

Original laboratory, field, or library research on an approved topic, supervised by the department staff. Strongly recommended for majors (sophomores, juniors, and seniors). This course can be seen as preliminary to Biology 391..

**356 Research (1)**

A continuation of Biology 355.

**391 Individual Studies (3)**

Strongly recommended for majors; open to qualified juniors and seniors upon approval of proposed research project by the department. See catalog section "Individual Studies" for application procedures and policies governing individual studies.

**392 Individual Studies (3)**

Same as Biology 391.

## Business Administration

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General Major— Business Administration 201, 202, 205, 206, 301, 351; five elective courses in business administration; Economics 201, 202, 303; one elective course in economics.

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**101 Introduction to Business (3)**

A survey of the dynamic economy of our nation and a study of the objectives and responsibilities of business. The course considers the ethical problems of business. A non-technical course designed to benefit all college students.

**201 Principles of Accounting - Financial (3)**

An elementary course in fundamental accounting theory and practice; a study of principles of accountability, record keeping, procedures, and preparation of financial reports.

**202 Principles of Accounting - Managerial (3)**

An introduction to management accounting with primary emphasis on the record-keeping and internal reporting that forms the basis for management decisions. Prerequisite: Business Administration 201.

**205 Principles of Management (3)**

A basic course in management fundamentals as applied to business organizations as well as to school, church, and other organizations seeking to accomplish objectives through group activity; a Christian approach to management problems. Prerequisite: sophomore standing.

**206 Principles of Marketing (3)**

A study of marketing institutions, channels of product distribution, problems of price determination, promotion methods, government influences, and ethical problems of the marketing person.

**210 Information Processing and Management (3)**

This course is designed to aid students in developing personal skills relative to efficient information processing and management. In addition to supervised drill work, classroom lectures will seek to clarify and identify the current procedures and electronic technology found in the business environment today. Credit will not be given for both Business Administration 210 and Business Education 105, 112, 321.

**301 Business Law I (3)**

Will you ever lease an apartment, sign a sales contract, need a will, be named in a lawsuit or be confronted by a high-pressure door-to-door salesman? Both business and nonbusiness students can benefit from this basic course on law. Topics include: criminal law, torts, contracts, agency, property, wills, and the Uniform Commercial Code.

**302 Business Law II (3)**

A continuation of Business Administration 301 with emphasis on the law of bailments, negotiable instruments, sales, partnerships, corporations, secured transactions, bankruptcy, federal regulations, and the Uniform Commercial Code. Discussions include how to start a business, how to sign and endorse checks, how to extend credit, and laws prohibiting false advertising and employment discrimination. Prerequisite: Business Administration 301 or permission of instructor.

**305 Personnel Management (3)**

A survey course which examines the role of personnel management and its contribution to the total management effort. Emphasis will be placed on recruitment and placement, developing human resources, labor relations, remuneration, and security. Prerequisites: Business Administration 205; junior or senior standing.

**308 Advertising (3)**

A course in principles and practices of advertising, promotion, and public relations strategy, in Christian perspective. A study of legal and ethical aspects of advertising and promotion, and application of effective procedures. Prerequisites: Business Administration 206; junior or senior standing.

**310 Intermediate Accounting I (3)**

Analysis of financial accounting theory and current practice. Analysis of problems concerning valuation of assets, evaluation of liabilities and capital structure, communication and reporting of financial information. Prerequisite: Business Administration 202.

**311 Intermediate Accounting II (3)**

Continuation of Business Administration 310, includes special financial reports and financial analysis.

**312 Advanced Accounting (3)**

A comprehensive study of accounting problems of partnerships, consolidations, branch operations, bankruptcies, estates, trusts, etc. Prerequisite: Business Administration 202.

**313 Cost Accounting (3)**

A study of measurement and evaluation of production costs, including job order costing, process costing, standard costing, quantitative methods of costing. Prerequisite: Business Administration 202.

**314 Auditing (3)**

A working knowledge of principles and procedures of professional auditing and accounting with special emphasis on A.I.C.P.A. standards, and on professional ethics. Prerequisites: Business Administration 311, 312.

**315 Federal Income Tax (3)**

A study of federal income tax regulations and forms, based on the Internal Revenue Code, with primary emphasis on tax problems for the individual. Prerequisite: Business Administration 201 or Business Education 203, or permission of instructor.

**325 Corporation Finance (3)**

An analysis of the financial structure and problems of the corporation, with emphasis on financial planning, analysis and control; includes discussion of a variety of financial assets, as well as the impact of inflation and interest rates on financial decision making. Prerequisites: Business Administration 202; Economics 202.

**326 Investments Management (3)**

The study of all types of investments with primary emphasis on stocks, bonds, and related securities. Includes a discussion of the function of securities markets and institutions, and portfolio management. Prerequisite: Business Administration 325 or permission of instructor.



**330 International Business (3)**

A study of the special problems involved in doing business across national boundaries, with emphasis on the economic basis for trade, and the impact of religious, cultural, and political environments on business practice. Includes an evaluation of the management, marketing, and financial practices of multinational corporations from a Christian perspective. (Credit will be granted for either this course or the International Marketing course taught in the Netherlands—but not both.) Prerequisites: Business Administration 206; Economics 202; junior or senior standing.

**341-348 Special Topics (3)**

Courses on different topics, designed to be special interest courses, utilizing individual instructor strengths, interests, and competencies. Each course selected will involve a topic not usually treated in depth in regularly scheduled courses.

**351 Senior Business Seminar (3)**

An integration of departmental courses involving student research and analysis on current topics in business and economics, with primary emphasis on Christian perspectives for the businessperson. Required of all senior students in business administration.

**371-373 Business Administration Practicum (3-9)**

A course intended to provide the Business Administration major the opportunity to apply the knowledge, principles, and skills gained in the classroom in an actual business environment. Prerequisite: completion of 12 or more courses in the major area.

**375-377 Accounting Practicum (3-9)**

A course intended to provide the Accounting major the opportunity to apply the knowledge, principles, and skills gained in the classroom in an actual accounting environment. Prerequisite: completion of 12 or more courses in the major area.

**391 Individual Studies (3)**

Open to qualified juniors and seniors with permission from the department. See the catalog section "Individual Studies" for application procedures and policies governing individual studies.

**392 Individual Studies (3)**

Same as Business Administration 391.

## Business Education

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### Teaching Major— (Secondary)

Business Administration 201, 202, 301, 302; one course from Business Administration 351, 391; Business Education 105, 112, 113, 321; three elective courses from business administration and/or business education; Economics 201, 202; one elective course in economics.

#### Approval Areas

35—Accounting

36—Business Law

37—Basic Business

39—Typewriting

101—Office Skills

38—Shorthand (if advanced course is included)

### Teaching Minor— (Secondary)

#### Alternative I

Business Administration 201, 202, 301, 302; Business Education 112, 113; Economics 201, 202.

#### Approval Areas

35—Accounting

36—Business Law

37—Basic Business

39—Typewriting

Teaching Minor— Alternative II  
(Secondary) Business Administration 201, 202; Business Education 105, 112, 113, 211, 212, 323.

*Approval Areas*

35—Accounting

37—Basic Business

38—Shorthand

39—Typewriting

101—Office Skills

Area of Concentration (Associate of Arts)

Secretarial Science: Business Education 105, 112, 113, 211, 321, 322, 323; one course from Business Education 212, 324; Business Administration 101; one course from Business Education 203, Business Administration 201; one course from Business Education 212, 324, Business Administration 202, 301, 315, Computer Science 101, 102, 103, 111; Communication 110. (General requirements must be met by the following specific courses: English 101, 200.)

Note: Medical Emphasis Option includes Biology 201, 202; Business Education 324.

**105 Calculating Machines/Records Management (3)**

The development of job-level skill in the operation of the electronic calculator emphasizing the application to the solution of typical problems in business math. Includes an overview of the records control field—the structure of various filing systems and procedures (with practical applications), storage and retrieval systems, and equipment used in records control. (Open only to majors in Business Education and to students in the Associate of Arts program in Secretarial Science.)

**112 Typewriting II (3)**

Development of accuracy and speed. Application of skill to more complex tabulations, correspondence, reports, business forms, and composition at the typewriter. This course may be waived by passing a proficiency examination administered by the Business Education Department. For students who have had no previous typewriting training, arrangements can be made by the department for basic keyboard instruction. (Open only to majors in Business Education and to students in the Associate of Arts program in Secretarial Science and Data Processing.)

**113 Typewriting III (3)**

Development of skill to production level. Emphasis upon office-type work assignments with evaluation based upon high-level office standards of production. Prerequisite: Business Education 112 or equivalent.

**203 Introduction to Accounting (3)**

A one semester terminal course in accounting to provide exposure to basic accounting records and reports as to content and value for management. Designed for Secretarial Science students. Students who wish to complete additional accounting courses must begin with Business Administration 201. Credit will not be given for both Business Education 203 and Business Administration 201.

**211 Shorthand I (3)**

A study of Gregg shorthand theory, including the shorthand alphabet, brief forms, principles of reading and writing shorthand, and taking dictation. (Open only to majors in Business Education and to students in the Associate of Arts program in Secretarial Science.)

**212 Shorthand II (3)**

A review of Gregg shorthand theory, building increased speed on new-matter dictation, and transcription skill development in the production of mailable copy; language arts skills necessary for transcription are also emphasized.



**321 Office Procedures and Administration (3)**

A study of procedures and duties essential to the efficient administration of an office by an executive secretary, including receiving, transmitting, duplicating, storing and retrieving business information, composing business letters, reports and memoranda. Prerequisite or corequisite: Business Education 112.

**322 Advanced Secretarial Procedures and Communications (3)**

A continuation of Business Education 321, with emphasis in human relations in communication, taking and giving dictation, financial and legal aspects of secretarial work, administrative and supervisory opportunities for the secretary, and general development of skills and secretarial ethics for the high-level secretary. Prerequisite: Business Education 321.

**323 Automated Word Processing (3)**

Identifying the changes made in the traditional office affected by word processing procedures and equipment. An introduction to the production of typewritten communications at top speed with maximum accuracy, minimum effort, and lowest cost, through the combined use of proper procedures and modern word processing equipment. Prerequisite: Business Education 112.

**324 Advanced Word Processing (3)**

A continuation of Business Education 323. Course emphasis will center on the following three areas: advanced techniques, specialized applications (e.g. medical, legal), and microcomputer word processing and communications applications. Prerequisite: Business Education 323.

## Chemistry

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General Major— Chemistry 103, 104, 201, 202, 301, 302, 311, 391; two courses from Chemistry 205, 312, 321; Mathematics 112, 113; Physics 115, 116 or 125, 126.

Teaching Major—  
(Secondary) Chemistry 103, 104, 201, 202, 205, 301, 302; one course from Chemistry 311, 312, 321, 391; Mathematics 112; Physics 115, 116.

*Approval Areas*

64—Chemistry

88—Physical Science (with Astronomy 121, 122; one course from Geology 110, Physical Science 201)

Teaching Minor—  
(Secondary) Chemistry 103, 104, 201, 202, 311; one course from Chemistry 205, 312.  
*Approval Area*  
64—Chemistry

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**101 General Chemistry (4)**

A course in the basic concepts of general chemistry. Atomic structures and chemical bonding, states of matter, chemical reactions, solutions, rates of reactions and equilibria, acids and bases, and oxidation reactions will be studied. Three lectures and one laboratory period of three hours per week. The laboratory will be the same as Chemistry 103.

**102 Organic and Biological Chemistry (4)**

A continuation of Chemistry 101. Organic molecules and their functional groups, biomolecules and their function in living cells will be studied. Three lectures and one laboratory period of three hours per week. The laboratory will include experiments in organic and biological chemistry.

**103 General and Analytical Chemistry (4)**

A course in the fundamental principles of chemistry. The laboratory consists of problems in quantitative analysis with both wet procedures and elementary instrumental procedures used. The intent of the laboratory part of the course is to prepare students who will either take more chemistry courses or upon completion of the course will work in a laboratory where analytical techniques are required. Three lectures and one laboratory period of three hours per week.

**104 General and Analytical Chemistry (4)**

A continuation of Chemistry 103.

**201 Organic Chemistry (4)**

A study of the chemistry of the hydrocarbons, including aliphatic, cyclic, and aromatic. An introduction to organic reaction mechanisms. Three lectures and one laboratory period of three hours per week. Prerequisite: Chemistry 104.

**202 Organic Chemistry (4)**

A study of the various organic functional groups. The study of organic reaction mechanisms is continued. Three lectures and one laboratory period of three hours per week. Prerequisite: Chemistry 201.

**203 Introduction to Theoretical Chemistry (3)**

The course will cover, on an elementary level: surface chemistry; radioactivity and its uses; aqueous solutions, with emphasis on pH and buffers; and elementary thermochemistry. The course is intended for those in disciplines in which chemical principles are used, especially in the life and health sciences. Prerequisite: Chemistry 104.

**205 Biochemistry (3)**

An introduction to the chemistry of living systems. Some topics discussed include: pH and buffers, carbohydrates, lipids, proteins, nucleic acids, and enzymes. This knowledge is then applied to a study of the metabolism of the major cell constituents and integrated through a consideration of the interrelations among the carbon, nitrogen and energy cycles. Three lectures per week. Prerequisite: Chemistry 202.

**301 Physical Chemistry (3)**

An introduction to thermodynamics with application to physical and chemical systems. This introduction includes a study of solution chemistry. Three lectures and one laboratory period per week. Prerequisites: Chemistry 103; Physics 115 or 125; Mathematics 112; junior or senior standing.

**302 Physical Chemistry (4)**

A continuation of Chemistry 301, quantum mechanics and kinetics. Three lectures and one laboratory period per week.

**311 Advanced Inorganic Chemistry (3)**

A survey of the chemistry of the elements based on the physical principles underlying the periodic arrangement of the elements. Three lectures per week. Prerequisite: Chemistry 104.

**312 Instrumental Analysis (3)**

Optical, electrical, and chromatographic methods of quantitative analysis and theoretical study. Two hours of lecture and one laboratory period per week. Prerequisite: Chemistry 104 or permission of instructor.

**321 Advanced Organic Chemistry (3)**

Advanced topics in organic chemistry, with an emphasis in reaction mechanism, kinetics, and other currently active areas of organic chemistry. Intended primarily for chemistry majors. Three lectures per week. Prerequisite: Chemistry 202.

**391 Individual Studies (3)**

Open to qualified juniors and seniors with permission from the department. See the catalog section "Individual Studies" for application procedures and policies governing individual studies.

**392 Individual Studies (3)**

Same as Chemistry 391.

## Classical Studies

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General Major— Greek 201, 202, 301, 302; one elective course in Greek; History 203, 204, 205, 206; Philosophy, 301, 302.

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## Communication

General Majors—Communication: Communication 201, 220, 222, 228, 240, 241, 301; one course from Communication 313, 315; three electives from communication courses numbered 200 or above, except Communication 373.

Journalism emphasis: Communication 201, 220, 222, 240, 241, 242, 250, 301, 313; one course from Communication 245, 302.

Radio/Television emphasis: Communication 201, 222, 240, 241, 245, 250, 258, 301, 352; one course from Communication 313, 315.

Speech emphasis: Communication 201, 212, 220, 222, 311, 313, 315; three electives from communication courses numbered 200 or above, except Communication 373.

Teaching Major—

(Secondary) Speech: Communication 201, 212, 220, 222, 240, 311, 315; Theatre Arts 201; three elective courses from Communication 228, 250, 258, 301, 312, 313, 341-348, 352, 391, 392, Theatre Arts 202, 203, 310, 340 (no more than two courses selected from theatre arts).

*Approval Area*

46-Speech

Teaching Minors—

(Secondary) Journalism: Communication 240, 241, 242, 301, 302; two courses from Communication 201, 220, 222, 245, 250, 313, 315, English 304.

*Approval Area*

47—Journalism

Speech: Communication 201, 212, 220, 311, 315; two courses from Communication 222, 228, 240, 250, 258, 312, 313, 341-348, 352, 391, 392, Theatre Arts 201.

*Approval Area*

46—Speech

### 41-48 Student Publications Production (1)

Open to all who work on student publications—who submit, in advance, a learning activities contract listing the types of projects and learning experiences in which they will participate. (Graded on a P/No record basis.)

### 110 Fundamentals of Speaking and Listening (3)

The study of the basic concepts and designs of public speaking such as organization, style, content, and delivery. An important part of the course will concentrate on listening concepts and abilities. This course emphasizes the presentation of speeches and exercises in listening.

### 201 Principles of Communication (3)

A course designed to introduce the beginning communication student to some of the basic principles and thought in the study of communication such as communication models, variables, symbols, perception, intrapersonal communication, and semantic problems.

### 212 Oral Interpretation (3)

This course seeks to give students practice in the analysis and presentation of the various types of prose and poetry including the reading of the Holy Scriptures. An introduction to reader's theatre and choral reading will be presented.

**220 Small Group Discussion and Communication (3)**

Theory and practice of group problem-solving in cooperative face to face discussion; the development of awareness and understanding of group dynamics and the presentation of panels, symposiums, and dialogues.

**222 Interpersonal Communication (3)**

The study of concepts, problems, and responsibilities in personal communication between individuals, such as, conversation and informal discussions, with consideration of status, power, trust and other variables.

**228 Organizational Communication (3)**

The analysis of formal and informal communication in such organizations as corporations and institutions. Included will be considerations of communication problems related to grapevine, rumor, channels, perception, power, status, roles, structures, etc.

**240 Introduction to Mass Communication (3)**

This course is an introduction to the concept of mass communication and its application to electronic and written media. The course will survey the historical development of the technology, effects, and theory of the media through major issues.

**241 Basic News Writing (3)**

An introduction to gathering and writing news for the print and broadcast media. The course includes practice in writing several types of news stories. It uses the DIAMOND as its laboratory. It stresses the importance of reporting news from a Christian perspective.

**242 Newspaper Writing, Design and Layout (4)**

A continuation of Communication 241. Students will learn interviewing, in-depth reporting, critical and feature writing. Magazine writing and production will be introduced. Students will practice style, headlines, etc., using the DIAMOND as laboratory. Prerequisites: Communication 241; a satisfactory grammar score.

**243 Journalism Production (3)**

A three-semester sequence in journalism production based upon working on the DIAMOND. The course will be designed for each individual, and learning contract requirements will be met by three enrollments, normally in three consecutive semesters. Prerequisite: Communication 241 or two units of Communication 41-48.

**245 Broadcast Journalism (3)**

This course focuses on journalism for radio and television. It deals with gathering, writing, editing, and presenting broadcast news. Issues relative to these processes are analyzed from a Christian perspective. Prerequisites: Communication 240, 241.

**250 Introduction to Broadcasting (3)**

This course provides an introductory exploration into the world of radio and television as communication media. Through a lecture-discussion format, the student is introduced to the complexities of sight and sound broadcasting and the electronic media's impact on society. Special emphasis is given to broadcasting in the United States with some overview of broadcasting in other countries. This course is designed as a practical, non-theoretical, non-philosophical approach to broadcasting.

**258 Broadcast Announcing (3)**

A practical, introductory course in communicating to a broadcast audience through careful use of pronunciation, articulation, diction, and microphone technique. Exercises will include various types of broadcast speaking such as commercials, news, and music programs. Prerequisite: Communication 250.

**301 Advanced Expository Writing I (3)**

This course is designed to help the person who has trouble getting started writing and the person who feels his prose too wordy, too abstract, or too dead. In other words, the course will stress writing and rewriting, vision and revision. It will be geared for all students, regardless of their major. We will study how to use description, narration, and analogy to aid in exposition, how to describe a process, how to compare and contrast, how to classify. There will also be assignments in analysis, inductive writing, deductive writing, and in definition.



**302 Advanced Expository Writing II (3)**

This course will get at some of the same principles as Communication 301, but will make more use of prose models. Students will work on clarifying the writer's stance, establishing the writer's tone, and gaining force by way of syntax.

**311 Advanced Public Speaking (3)**

An emphasis upon proper speech construction, and delivery with application of communication concepts. Includes analysis of some public addresses. Prerequisite: Communication 110 or permission of instructor.

**312 Ensemble Interpretation (3)**

Development and presentation of dramatic production which include pieces of poetry, prose, and drama. Utilization of props, lights, sound effects, and slide projections. Emphasis on developing original scripts comprised of pieces written by Christians. Prerequisite: Communication 212.

**313 Persuasion (3)**

The analysis and study of modern research regarding various types of persuasive appeals and of theories of persuasion with particular emphasis upon Christian theory and ethics.

**315 Argumentation (3)**

Basic principles of argumentation and their application in debate. Consideration of analysis of issues, evidence and reasoning, refutation, ethics, and various types of debate.

**341-348 Special Topics (3)**

This course will consist of topics not normally covered in other communication courses. Specially designed to focus on more specific topics utilizing instructor strengths and consideration of student needs.

**352 Radio Production (3)**

Training in equipment use and control room procedures; uses and functions of microphones and video tape recorders. Classroom and studio instruction in radio programming and production skills. Prerequisite: Communication 250.

**371-373 Communication Internship (3-9)**

A supervised work experience designed to provide the student with the opportunity to apply principles and skills gained through course work. Open to qualified juniors and seniors.

**391 Individual Studies (3)**

Open to qualified juniors and seniors with permission from the department. See the catalog section "Individual Studies" for application procedures and policies governing individual studies.

**392 Individual Studies (3)**

Same as Communication 391.

## Computer Science

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General Major— Computer Science 111, 112, 120, 201, 202, 205, 208, 301; Mathematics 112, 113, 212; three courses from Mathematics 203, 204, 206, 209, 304; Engineering 204.

Area of Concentration (Associate of Arts)

Data Processing: Computer Science 101, 111, 115, 120, 201; Mathematics 107; Business Administration 201; Business Education 112, 321, 323.

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**101 Introduction to Computing (3)**

This course deals with the use of computers in society. Topics include computer design and use, simple BASIC programs, and applications programs in word processing, file management, and spread sheet. Discussion and study will also deal with developing proper attitudes and perspectives toward computing technology. (Note: only one course from Computer Science 101, 102, 103 may be taken for credit.)

**102 Programming for the Natural Sciences (3)**

An introduction to the methods and nature of problem solving and computer programming in the natural sciences using BASIC and FORTRAN programming languages. File handling is introduced along with proper programming practice and methods. (Note: only one course from Computer Science 101, 102, 103 may be taken for credit.)

**103 Programming in BASIC (3)**

This course is an introduction to the methods and nature of problem solving using the BASIC programming language. Data management and file development are introduced along with proper programming practice and methods. The history of the development of computers and the impact of computer technology on society are included as elements of this course. (Note: only one course from Computer Science 101, 102, 103 may be taken for credit.)

**111 Structured Programming I (3)**

An introduction to systematic and analytical methods of problem solving. Three basic phases of problem solving are emphasized: the analysis of the problem; the stepwise refinement of the algorithm; and the implementation in a computer language. Basic notions of computer programming, elementary composition principles, and the fundamental data structures are introduced.

**112 Structured Programming II (3)**

A continuation of Computer Science 111. Advanced programming and problem solving methods are introduced. The topics include string manipulation, linked lists, file handling, recursion, program modularity and programming style. Prerequisite: Computer Science 111.

**115 Programming for Business (3)**

An introduction to COBOL computer language, and programming in this language. Topics include file development and maintenance with emphasis on business applications. Prerequisite: Computer Science 111.

**120 Information Systems Design (3)**

An introduction to the nature of information systems; the conceptual foundations and use of such systems. Topics include information system planning, system flowcharts, input/output design, data dictionaries, and database queries. Prerequisite: any college level computer science course.

**201 Database Systems Design (3)**

A study of the design, development and implementation of an information system for management. Topics include database architecture, data definition and manipulation, report generation, and high level language interface. Prerequisite: Computer Science 120.

**202 Data Structures (3)**

A study of the various types of information forms handled by a computer. This includes the format of data and the design and analysis of algorithms to manipulate data. Prerequisites: Computer Science 112 or 115; Mathematics 112.

**205 Computer Architecture and Assembly Language Programming (3)**

The topics of this course cover the design of a computer, how data is converted and represented, CPU organization, addressing, relocatability, use of base registers, multiple radix arithmetic, and programming in machine language. Prerequisite: Computer Science 102 or 111, or permission of instructor.

**208 Programming Language Concepts (3)**

A study of the syntax, design, and history of programming languages and programming language structures. Topics discussed include variables, expressions, data types, scoping, and procedures. Prerequisite: Computer Science 112 or permission of instructor.

**210 Information Systems for Decision Support (3)**

A study of decision support systems for organization planning and management. Topics include modeling and simulation methods for problem solving and decision making. Prerequisite: Computer Science 201.

**301 Computer Technology and Society (3)**

An examination and critique of the relationship of technology to other areas of Western society. During the first half of the course a Christian philosophy of technology is carefully studied and application is made to such problems as the role of the computer, technocracy, and the historical two-culture dualism. During the second half, the course focuses on the question of engineering ethics, with particular emphasis on such questions as safety and risk, professional responsibility and authority, whistleblowing, responsible salary structures, and morality in career choice. This course requires the student to write and present orally a significant research paper. Prerequisites: Philosophy 201, two 200 level computer science courses, junior or senior standing.



**341-348 Special Topics (3)**

These computer science courses cover different topics which maximize individual instructor strengths, interests, and competencies. Each course will deal with a topic in computer science not usually treated to any great extent in regularly scheduled courses.

**371 Practicum (3)**

Students will be given opportunity to apply the principles of Management Information Systems in an on-campus or off-campus assignment. Prerequisites: Computer Science 210; senior standing.

**391 Individual Studies (3)**

Open to qualified juniors and seniors with permission from the department. See catalog section "Individual Studies" for application procedures and policies governing individual studies.

**392 Individual Studies (3)**

Same as Computer Science 391.

## Dutch

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General Major— Dutch 201, 202, 206, 302; Linguistics 201; five courses from Dutch 101, 102, 207, 208, 301, 341-348, 391, 392; four semesters of Dutch conversation 251-258. Study abroad courses are recommended.

General Minor— Dutch 201, 202, 206, 302; one course from Dutch 102, 341-348, 391; three semesters of Dutch conversation 251-258. Study abroad courses are recommended.

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**101 Elementary Dutch (4)**

Emphasis on the basic structure of the language, core vocabulary, and pronunciation. Assigned work in the language laboratory.

**102 Elementary Dutch (3)**

Continuation of 101. Prerequisite: Dutch 101 or its equivalent.

**201 Intermediate Dutch (3)**

A review of the grammatical structure of Dutch, with an emphasis on the nature of language. Attention is given to listening, speaking, reading and writing skills, vocabulary, and culture. Prerequisite: Dutch 102 or its equivalent.

**202 Literary and Cultural Readings (3)**

This course is designed to develop the reading skill and an appreciation for Dutch culture and literature. Emphasis upon contemporary literature. Permission will be granted for individual readings in academic areas of interest to the student. Prerequisite: Dutch 201 or departmental approval.

**206 Dutch Culture (3)**

This course is designed to cover many aspects of the Dutch way of life. Listening and speaking skills will be developed through the classroom activities. Prerequisite: Dutch 201 or departmental approval.

**207 World Literature (3)**

See English 207. Students who wish this course to be listed as a Dutch course will be assigned their paper based on Dutch readings.

**208 World Literature (3)**

See English 208. Students who wish this course to be listed as a Dutch course will be assigned their paper based on Dutch readings.

**251-258 Conversation (1)**

The courses are designed to give the student practice in listening and speaking. The content of the courses will be altered each year. The class will meet two times each week; one hour of preparation per week. Prerequisite: Dutch 102.

**301 Dutch Phonology (3)**

See Linguistics 301. The principles and universals of phonology will be studied. A direct application will be made to the Dutch language.

**302 Advanced Dutch Grammar (3)**

This course is designed for those who desire a better understanding of the structure of the language. The scope of grammar will be approached systematically. Prerequisite: Dutch 201 or its equivalent.

**341-348 Special Topics (3)**

The topics for these courses will be chosen from the areas of literature, advanced language studies, culture, or teaching methods. The offering of the courses as well as the content will reflect student interest and need. Prerequisite: departmental approval.

**391 Individual Studies (3)**

Open to qualified juniors and seniors with permission from the department. See the catalog section "Individual Studies" for application procedures and policies governing individual studies.

**392 Individual Studies (3)**

Same as Dutch 391.

## Economics

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### Teaching Minor—

(Secondary) Business Administration 201, 202, 301, 302; Economics 201, 202; two courses from Economics 303, 305, 309, 315.

#### *Approval Areas*

35—Accounting

36—Business Law

37—Basic Business

69—Economics

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**200 Economics and Christian Stewardship (3)**

This course seeks to expose students who are **not** majoring in Business Administration, Business Education, or Accounting to a wide variety of principles, policies, institutions and problems within the field of economics. It includes the discussion of concepts such as property, value, work, wages, prices, profits, Christian stewardship in the marketplace, and comparative economic systems. Credit will not be given for both Economics 200 and Economics 201 or 202.

**201 Principles of Economics: Macro (3)**

An introduction to the study of human choice in the allocation of scarce resources, concentrating on the aggregate or national level. Economic systems, national income accounts and analysis, income distribution, fiscal and monetary policy, banking systems, economic growth, and selected economic policy problems are covered. Christian views on the origin and nature of economic resources and man's stewardship responsibilities.

**202 Principles of Economics: Micro (3)**

The study of allocation of scarce resources at the level of the individual, the household, and the firm. Included are human motivation and preferences, the market, the function of prices, supply, demand, perfect and imperfect competition, selected policy questions. Also studied are Christian views on the nature of humanity, human motivation, and the market.

**303 Money and Banking (3)**

An analysis of the nature and function of money, the operation of the financial system, the organization of commercial banking, and the Federal Reserve System. Also included is a study of the principles of monetary policy and their application in our economy. Prerequisites: Economics 201, 202.

**305 Labor Economics (3)**

A study of the labor force and market, organized labor, collective bargaining, labor legislation, and regulatory institutions. Christian views on the responsibilities of labor and management are studied as well as Christian norms on appropriate labor policies. Prerequisite: Economics 202.



**309 Economic History of the United States (3)**

A history of the development of the United States from the economic point of view. Also studied are the economic causes and effects of major historical events, with contemporary economic thought. Prerequisite: Economics 202 or permission of instructor.

**315 Government Finance (3)**

This course covers government taxing and spending at the local, state, and federal levels. Christian and secular views on governmental economic activity, benefit-cost analysis, forms of taxation and their effects, debt financing, budget processes and problems are studied. Prerequisite: Economics 201.

**321 Economic Development in the Third World (3)**

A study of economic aspects of poverty and underdevelopment in the modern world. Specific topics include the dimensions and nature of poverty in the world, characteristics and types of developing nations, theories of development, institutions and policies designed to promote development, and emerging issues in development. Prerequisites: History 200; one course from Economics 200, 201, 202; or permission of instructor.

**333 Economics of Natural Resources and the Environment (3)**

A study of economic aspects of Christian stewardship in relation to the environment and use of natural resources. Major topics include Biblical norms on creation, property rights, economic justice, the economic dimensions of current environmental problems and trends in resource use, institutions and social structures that affect environmental policy, economic theories related to resource use and environmental quality, and evaluation of current and proposed policies from a Christian point of view. Prerequisite: Economics 202 or permission of instructor.

## Education

Students may prepare for teaching in the Elementary or in the Secondary school. To be eligible for recommendation for certification students must be admitted to the Teacher Education Program and must complete the requirements for the Bachelor of Arts Degree in Elementary Education or in Secondary Education. For information on requirements for admission to the Teacher Education Program, see the section of the catalog entitled TEACHER EDUCATION PROGRAM.

The programs described in the 1987-88 catalog apply to those who will graduate prior to October 1, 1988. Description of the programs and the majors and minors for both the elementary and secondary students who graduate after October 1, 1988, is available from the Education Department.

### Elementary Education — Teaching Minors

1. **ART** (Approval Area 34)  
Art 201, 202; one course from Art 207, 208; one course from Art 216, 218, 220, 225, 228, 230; three courses from Art 200 or above.
2. **BIOLOGY** (Approval Area 63)  
Biology 115, 122, 200, 213; two courses in biology numbered 200 or above.
3. **CHEMISTRY** (Approval Area 64)  
Chemistry 103, 104, 201, 202, 311; one course from Chemistry 205, 312.
4. **COMMUNICATION-JOURNALISM** (Approval Area 47)  
Communication 240, 241, 242, 301, 302; two courses from Communication 201, 220, 222, 243, 250, 313, 391, English 304.
5. **COMMUNICATION-SPEECH** (Approval Area 46)  
Communication 212, 220, 311, 312, 315; Education 232, 262.

6. **ECONOMICS** (Approval Areas-Accounting 35, Business Law 36, Economics 69, Basic Business 37)  
Business Administration 201, 202, 301, 302; Economics 201, 202; two courses from Economics 303, 305, 309, 315.
7. **ENGLISH** (Approval Area 45)  
English 200, 201, 202, 336; one course from English 301, 302; one course from English 312, 314, 315, 316; two courses beyond the English 200 level, or one upper level English course and either Theatre Arts 364 or 365.
8. **ENGLISH AS A SECOND LANGUAGE (ESL)** (No Approval Area)  
Linguistics 201, 301, 371; English 336; Education 355; Foreign Language 201; one course from Foreign Language 202, 206; two semesters of foreign language conversation 251-258.
9. **GENERAL SCIENCE** (Approval Area 65)  
Biology 101, 102 (or Biology 115, 122, recommended), 200; Physical Science 201; two courses from astronomy, chemistry, physics, physical science; two courses from any science.
10. **GERMAN** (Approval Area 55)  
German 201, 202, 206, 301, 302; one course from German 102, 341-348, 391; two semesters of German conversation 251-258. Study abroad courses are recommended.
11. **HISTORY** (Approval Areas 72 and 73)  
History 100, 201, 202; one course from History 212, 213, 214; two 300-level American history courses; two courses from History 203, 205, 207, 209, 210, 211, 215, 303, 307, 341-348.
12. **LANGUAGE ARTS** (No Approval Area)  
Education 205 or 206; Education 232, 262; English 336; three courses from English 201, 202, 221, 222, Communication 212, 220, Linguistics 201.
13. **MATHEMATICS** (Approval Area 58)  
Mathematics 107, 109, 112, 207, 208, 210; one course from computer science. (Mathematics 110 must also be taken if the student has had fewer than four years of high school mathematics.)
14. **MUSIC** (Approval Area 60)  
Music 103, 104, 308, 312, 315, 323; three courses from Music 203, 204, 207, 208, 210, 211, 212, 305, 307; two semesters from Music 316-319.
15. **PHYSICAL EDUCATION** (Approval Area 62) (Coaching Endorsement 55)  
Physical Education 10, 25, 201, 203, 204, 205, 207, 209, 212, 306; three activities from Physical Education 11-28.
16. **PHYSICAL SCIENCE** (Approval Area 88)  
Astronomy 121, 122; Chemistry 103, 104; Physics 125, 126; Geology 110 or Physical Science 201; one course from Chemistry 201, 202, 203, 301, 302, 311, 312, Physics 206, 215, 216.
17. **PHYSICS** (Approval Area 66)  
Mathematics 112, 113, 204; Physics 125, 126, 215, 325; one physics or astronomy course numbered 200 or above.
18. **POLITICAL SCIENCE** (Approval Area 71)  
Political Science 201, 212, 214, 220, 222; two courses from Political Science 233, 310, 311, 312.
19. **PSYCHOLOGY** (Approval Area 87)  
Psychology 201, 205, 210, 302; two courses from Psychology 225, 303, 315; one additional course in psychology.



20. **READING** (Approval Area 91)  
Education 205, 303, 323, 324, 327; Linguistics 201; one course from Linguistics 301, 371.
21. **SOCIAL SCIENCE** (No Approval Area)  
Geography 201; Sociology 201; one course from Sociology 215, 216; two history courses other than History 100; three courses from Economics 201, 202, Political Science 201, 212.
22. **SOCIOLOGY** (Approval Area 74)  
Sociology 201, 207, 210; one course from Sociology 215, 216; three courses from sociology and/or Social Work 225, 303, 304.
23. **SPANISH** (Approval Area 57)  
Spanish 201, 202, 206, 301, 302; one course from Spanish 102, 341-348, 391; two semesters of Spanish conversation 251-258. Study abroad courses are recommended.
24. **SPECIAL EDUCATION I** (No Approval Area)  
Education 301, 302, 303, 304, 305, 306, 309; one course from Psychology 205, 225, 302.
25. **SPECIAL EDUCATION II** (Approval Area 81: Mentally Handicapped)  
Education 301, 302, 303, 304, 305, 306, 309, 327, 376; Psychology 205. Students selecting this minor must be carefully advised of course sequencing. Extra course work beyond the typical four-year program is required and students should plan an additional semester or summer.
26. **THEATRE ARTS** (No Approval Area)  
Theatre Arts 201, 202; Education 262; one course from Theatre Arts 207, 208; one course from Theatre Arts 371, 373, 377; two courses from Communication 110, 212, 220, 313, Theatre Arts 203, 340; two units selected from Theatre Arts 14-51.
27. **THEOLOGY** (No Approval Area)  
Two courses from Theology 201, 202, 204; Theology 210; four courses from theology other than Theology 101.

## Associate of Arts — Areas of Concentration

### **SPECIAL EDUCATION AIDE**

Education 201, 202, 301, 302, 303, 304, 309; Communication 110; Psychology 205; two Physical Education activities; one course from Education 305, 306; two courses from Education 111, 205, 211, 215, 232, 262, 321/322, Geography 201, Mathematics 109, Physical Education 207; one additional elective.

### **TEACHER AIDE**

Education 111, 201, 202, 301; Communication 110; Psychology 205; two Physical Education activities; five courses from Education 205, 211, 215, 232, 262, 321/322, Geography 201, Physical Education 207; one additional elective.

The General Education Requirements for both AA programs in education include: English 101, a history course, Theology 101, a science course, a mathematics course unless the mathematics requirement is met, a humanities course, Psychology 201, Philosophy 201, Physical Education 10, General Education 10, and computer literacy.

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### **111 Elementary School Health and Physical Education (3)**

Provides general background and information needed for formulating and teaching a suitable program in health and physical education for elementary school children.

**201 Introduction to Education (3)**

An introduction and orientation to the teaching professions and to Dordt's Teacher Education Program. Consideration is given to formulating a Christian profession of education as well as investigating the contemporary scene with its historical antecedents. Human relations, career education, curriculum planning, basic pedagogical approaches, and teaching as a profession are covered.

**202 Practicum in Education (3)**

Provides an early in-depth experience in a school environment, a study of tests and measurements, and a study of audiovisual media and microcomputer as effective means for achieving educational objectives. Emphasis is on the use of equipment and the development of materials. Students must supply materials that are available at the bookstore.

**204 Pre-Student Teaching Field Experience - Elementary (1)**

A field experience of at least twenty hours completed by elementary education majors in schools of their own choice. Prerequisite: Education 202.

**205 Children's Reading Material (3)**

A reading and examination of a wide selection of children's books and magazines useful in enriching the subject areas of the elementary school curriculum and in providing good reading habits. Criteria for judging such material is considered and practice in storytelling is provided. Offered in alternate years.

**206 Adolescent Reading Interests (3)**

Reading and examination of a selection of books that could be used on the junior and senior high school levels with criteria for judging such materials. An introduction to different approaches for outside and in-class reading, and the planning of a thematic unit on the adolescent level. Offered in alternate years.

**211 Art for the Elementary Teacher (3)**

Methods and techniques of organizing and motivating art instruction for elementary school children. Creative work with material for the young child: crayon, cut paper, water color, and poster paint. Open only to juniors and seniors.

**215 Educational Psychology (3)**

An application of psychology to the educational environment. Includes units of study on cognitive and affective development, on learning theories and their application to teaching, on teaching exceptional children, on classroom management, and on human relations. Prerequisite: Psychology 201.

**223 Teaching Bible in the Elementary School (1)**

A course designed to discuss the role of Bible in the Christian school, to examine curriculum materials available for the teaching of Bible on the elementary level, to develop pedagogical skills for teaching Bible, and to involve students in the designing of their own curriculum materials for teaching Bible.

**232 Interpersonal Communication for the Elementary Teacher (3)**

Major emphasis is placed upon communication between student and teacher with attention given to the development of a speech model on the part of the teacher. Linguistics 201 is recommended. Open only to juniors and seniors.

**262 Creative Dramatics for Children (3)**

An introduction to informal dramatics for the classroom, especially elementary and junior high. Emphasis on dramatic activity requiring minimal equipment and facilities. Field experience required in area schools.

**301 Introduction to Exceptional Individuals (3)**

A study of the various categories of exceptionalities. This course will examine the education, sociological, and philosophical implications of being exceptional. Emphasis will be placed on implications for teachers and classrooms.

**302 Introduction to Mental Retardation (3)**

A study of classification, etiology, and diagnosis of the mentally retarded with emphasis upon the educational implications, programming, special teaching procedures, and life adjustment for the mentally retarded. Prerequisite: Education 301 or Psychology 201.



- 303 Instructional Modifications for Students With Learning Difficulties (3)**  
This course will examine the types of learning and related difficulties the special needs student encounters in the regular classroom. Focus will be on adaptive techniques that the classroom teacher might use for this type of student and how to work cooperatively with special education personnel.
- 304 Introduction to Behavior Disorders (3)**  
A course dealing with characteristics, causes, definitions and treatment of children considered to be behavior disordered. An examination of various theoretical approaches and strategies with an emphasis on implications for the regular class. Prerequisite: Education 201 or Psychology 201.
- 305 Methods and Materials for the Education of the Mentally Retarded - Elementary (3)**  
A study of curriculum designs for individuals who are mentally handicapped. Specialized materials are examined. Emphasis is given to techniques of adapting general teaching principles and practices to meet the needs of the handicapped. Prerequisite: Education 302 or 303.
- 306 Assessment and Diagnosis in Special Education (3)**  
An introductory course in the use of assessment techniques in special education. This course will examine various formal and informal techniques and the use of these to identify and develop educational programs for exceptional students. Prerequisite: Education 301.
- 307 Methods and Materials for the Mentally Handicapped - Secondary (1.5)**  
This course will examine curriculum designs, program planning, developing units of instruction, and materials appropriate for mentally retarded students at the secondary level. An examination of teaching strategies, material modification and student evaluation is included.
- 308 Career and Vocational Education for the Handicapped (1.5)**  
A course designed to examine vocational and career programming for the mentally retarded adolescent. Emphasis will be on the examination of work experience programs, vocational training, and vocational evaluation.
- 309 Supervised Practicum in Special Education (1)**  
A supervised field experience that will allow the student to aide/observe in a special education classroom. Students seeking a mental disabilities approval should complete this experience with mentally disabled students. Prerequisite or corequisite: Education 302.
- 311 Materials of Elementary Music Education (3)**  
Provides background skills and materials necessary for the prospective elementary teacher. Not open to those majoring or minoring in music.
- 321 Teaching Social Studies in the Elementary School (1.5)**  
An introduction to a basic framework for social studies and to the use of an inquiry approach to teaching the basic concepts and skills of social studies. The focus is on selected strategies of teaching, unit planning, understanding maps and globes, and curriculum materials. Paired with Education 322.
- 322 Teaching Arithmetic in the Elementary School (1.5)**  
Mathematics for the student who plans to teach in the elementary school. Mathematics foundation, the number systems, and different methods of calculation are taught. Time is spent with methods, materials, goals, and means of evaluating the teaching of arithmetic. Paired with Education 321.
- 323 Teaching Reading in the Elementary School (3)**  
A course designed to cover basic principles involved in the teaching of reading, plus suggested techniques, approaches, and materials to be used in teaching reading in the elementary school. Open only to juniors and seniors.
- 324 Teaching Language Arts in the Elementary School (2)**  
A basic course in the principles, techniques, materials, and methods of evaluating English grammar and composition, spelling, handwriting, listening, and speaking. Part of the professional semester and taken after student teaching.
- 325 Teaching Sciences in the Elementary School (2)**  
A basic course in the principles and techniques of teaching the natural sciences. The primary focus is on the development of materials for use in the elementary science classroom. Part of the professional semester and taken after student teaching.



**326 Reading in Content Areas (3)**

A course designed to enhance the use of text materials in the secondary classroom. Attention is given to reading and study skills necessary for content learning and to the development of functional techniques for teaching content materials.

**327 Diagnosis and Remediation of Reading Difficulties (3)**

A study of the causes of reading difficulties in the elementary and secondary school, their diagnosis and correction. Includes a practicum which will emphasize case study techniques involving administration of various formal and informal tests and the interpretation of the test results along with practice in applying remediation procedures. Prerequisite: Education 323 or 326.

**330 Human Relations in Education (3)**

A course designed to develop an awareness of the responsibility of educators to establish educational programs that attempt to develop a sensitivity to and understanding of the different cultural/ethnic groups found in a pluralistic society. This course will include a history of the discrimination that many minority groups have encountered in North America and possible educational strategies for dealing with problems minority groups have encountered in the educational process.

**350 Methods of Teaching Art (3)**

Methods and techniques of organizing and motivating art on the secondary school level. Media explored depends on the needs and interests of the class.

**351 Methods of Teaching Biology (3)**

A review of recent trends in biology teaching. Use of audio-visual materials pertinent to biology, methods of evaluation, laboratory techniques, and textbook evaluations are included. Students give several class presentations and observe actual teaching situations.

**352 Methods of Teaching Business Education (3)**

Examination of the role of business education in the curriculum and current concerns in business education. Study of methods and materials for courses in business education at the secondary and higher education levels.

**353 Methods of Teaching Chemistry (3)**

A review of recent trends in chemistry teaching. Use of audio-visual materials pertinent to chemistry, methods of evaluation, laboratory techniques, and textbook evaluations are included. Students give several class presentations and observe actual teaching situations.

**354 Methods of Teaching English (3)**

Discussion of a Christian approach to the teaching of English. Methods and approaches to teaching literature, language, and composition, as well as micro-teaching in these areas. Attention is given to lesson, unit, course, and curriculum planning and to the use of audio-visual materials.

**355 Methods of Teaching a Second Language (3)**

Presentation of various methods of teaching a second language. This course will include teaching of listening, speaking, reading, and writing skills. Phonetics, morphology, syntax, meaning, vocabulary, culture, and literature will also be emphasized. A survey of ESL and foreign language materials will be included. Prerequisite: Linguistics 201 or departmental approval. Offered in alternate years.

**356 Methods of Teaching History (3)**

Discussion of a Christian approach to the teaching of history. Emphasis is on current methods of teaching history and consideration of practical suggestions in classroom procedure.

**357 Methods of Teaching Mathematics (3)**

Methods of effective teaching of mathematics on the secondary level. Prospective teachers attain understanding of the basic mathematics taught at the secondary level.

**358 Methods of Teaching Speech (3)**

A study of the concerns of the speech teacher in the secondary school: developing speech courses, preparing objectives, constructing units, evaluating textbooks, and coaching and directing forensic activities. Previous experience or course work in oratory, oral interpretation, and debate is desirable. Students lacking this experience do additional study or reading.



**359 Methods of Teaching Physics (3)**

A review of recent trends in physics teaching. Use of audio-visual materials pertinent to physics, methods of evaluation, laboratory techniques, and textbook evaluations are included. Students give several class presentations and observe actual teaching situations.

**364 Issues in Education (3)**

Critical examination of contemporary problems and trends in education and discussion and critique of the effect of traditionally defined philosophies of education on the present educational system.

**372 Student Teaching — Elementary (9)**

Students work full days with qualified teachers in the elementary schools. Activities include observing, teaching and participating in the schools' activities. Prerequisites: requirements as stated in the TEACHER EDUCATION PROGRAM section of the catalog.

**374 Student Teaching — Secondary (9)**

Same as the above except that teaching is done in the secondary schools.

**376 Student Teaching—Mental Disabilities: Elementary (6)**

Students who have completed prescribed course work for the minor in special education as well as the major in elementary education, work full days with qualified teachers in special education. A seminar in counseling parents of exceptional children is included.

**377 Student Teaching—Mental Disabilities: Secondary (6)**

Supervised student teaching in a secondary mildly or moderately mentally disabled program. A seminar in counselling the parents of handicapped children is included.

**391 Individual Studies (3)**

Open to qualified juniors and seniors with permission from the department. See the catalog section "Individual Studies" for application procedures and policies governing individual studies.

**392 Individual Studies (3)**

Same as Education 391.

**430 Human Relations in Education (3)**

A course designed to develop an awareness of the responsibility of educators to establish educational programs that attempt to develop a sensitivity to and understanding of the different cultural/ethnic groups found in a pluralistic society. This course will include a history of the discrimination that many minority groups have encountered in North America and possible educational strategies for dealing with the problems minority groups have encountered in the educational process. (For graduates only.)

## Elementary Education

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Teaching Major— Education 111, 201, 202, 215, 321/322, 323, 324/325, 364, 372; one (Elementary) course from Education 301, 303; three courses from Communication 212, Education 205, 211, 232, 262, 302, 311, 330, 343, English 336, Geography 201, History 201, 202, Mathematics 109, Political Science 212, Psychology 205.

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For complete listing of education courses by titles see the TEACHER EDUCATION PROGRAM section of the catalog.

## Engineering

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General Major—

Core (common to both emphases)—

Chemistry 103, 104; Computer Science 102; Economics 202; Mathematics 112, 113, 201, 204; one course from Mathematics 203, 206, 209, 311, 315; Physics 125, 126, 215; Engineering 101, 105, 202, 204, 206, 299, 362, 390.

Electrical Emphasis:

Core; Engineering 205, 207, 304, 305, 306, 326, 360, 363, 365.

Mechanical Emphasis:

Core; Engineering 210, 211, 212, 300, 302, 303, 312, 313, 320.

## Engineering Science

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General Major—

Core (common to all emphases)—

Mathematics 112, 113, 201, 204; Physics 125, 126, 215; Chemistry 103, 104; Computer Science 102; Economics 202; Engineering 101, 105, 202, 390.

General Emphasis:

Core; six engineering courses providing a coherent sequence as approved by the Engineering Department; three courses from the natural sciences and having approval of the Engineering Department; one course from Mathematics 203, 206, 209, 311, 315.

Agriculture Emphasis:

Core; Engineering 210, 211, 212; Agriculture 101, 102, 201, 221; two elective courses in agriculture; one course from Mathematics 202, 206, 209, 311, 315; three engineering courses providing a coherent sequence as approved by the Engineering Department.

Business Administration Emphasis:

Core; Business Administration 201, 202, 205, 313, 325; one elective business administration course or one course from Mathematics 203, 206, 209, 311, 315; Economics 201, 305; six engineering courses providing a coherent sequence as approved by the Engineering Department.

Chemistry Emphasis:

Core; Chemistry 201, 202, 301, 302, 311; two courses from Chemistry 205, 312, 321; one course from Mathematics 203, 206, 209, 311, 315; Engineering 210, 212; three engineering courses providing a coherent sequence as approved by the Engineering Department.

Computer Emphasis:

Core; Computer Science 111, 112, 202, 205, 208; Mathematics 212; one course from Mathematics 203, 206, 209, 311, 315; Engineering 204, 206, 304; three engineering courses providing a coherent sequence as approved by the Engineering Department.

Physics Emphasis:

Core; one course from Mathematics 203, 206, 209, 311, 315; Physics 325, 335, 336; three courses from Physics 206, 326, 391, Chemistry 301, 302; six engineering courses providing a coherent sequence as approved by the Engineering Department.

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101

### Engineering Drawing (3)

This course covers descriptive geometry (including orthographic projection and auxiliary views), isometric and oblique pictorials, sections, dimensions, tolerances as elements of working drawings, graphical analysis methods (including graphical calculus and nomography), and an introduction to computer graphics.



**105 Engineering Principles (3)**

An introductory course for freshmen students in engineering dealing with Christian perspectives of technology, the profession of engineering, engineering design, calculations and problem solving, as well as a review of basic principles of chemistry and physics.

**202 Elements of Materials Science (3)**

An introductory course in the chemistry and physics of engineering materials including crystalline, amorphous ceramic and polymeric materials. Introductory metallurgy includes examination of the effects of processing (heat treatment and manufacturing) and service environment on microstructure and properties. Prerequisite: Chemistry 104.

**204 Introduction to Microprocessors and Digital Circuits (4)**

Subjects studied are: basic microprocessor architecture, instruction set, elementary assembly language programming, elementary input and output, basic logical functions, Boolean algebra, integer arithmetic in binary systems, combinational and sequential circuits, and memory. This course is intended to serve both computer science and engineering students. A weekly laboratory gives practical experience with TTL logic and the Z-80 microprocessor. Prerequisite: sophomore standing.

**205 Linear Circuit Analysis (4)**

A course on the classical techniques of linear circuit analysis. Topics include nodal, loop and mesh analysis, network theorems (superposition, Thevenin, Norton, maximum power transfer), transient analysis of RL, RC, and RLC circuits, sinusoidal steady state response, phasor methods, impedance, admittance, power (instantaneous, average, complex), power factor, balanced three-phase circuits, wye-delta connections, three-phase power measurement, mutual inductance, transformers, two-port networks. Prerequisite: Engineering 206.

**206 Electronics I (4)**

An introductory course. Topics include: definitions of Voltage, Current, Resistance, Capacitance, Inductance; Kirchhoff's laws; simple nodal and mesh analysis; equivalent circuits; DC and AC analysis; diodes; bipolar and field effect transistors; biasing; small-signal analysis; and operational amplifiers. Laboratory exercises cover basic measurement techniques and typical applications of diodes, transistors, and operational amplifiers. Prerequisite: Mathematics 113. Corequisite: Mathematics 204.

**207 Circuit Analysis and Transforms (4)**

A study of circuit analysis techniques suitable for predicting the time and frequency domain response of circuits. Topics include: complex frequencies, poles and zeros, series and parallel resonance, Fourier and Laplace analysis. Laboratory exercises use circuit simulations on a digital computer and measurements collected on actual circuits to reinforce the lectures. Prerequisite: Engineering 205.

**208 Statics (3)**

A first course in engineering mechanics which studies the equilibrium of forces and moments applied to particles and rigid body systems including trusses, frames, and machines. Further topics include shear forces and bending moments in beams, friction, moments of inertia, and the principle of virtual work. Prerequisites: Mathematics 113; Physics 125.

**209 Dynamics (3)**

The second course in the engineering mechanics series. This course deals with analysis of the kinematics and kinetics of particles and rigid bodies in motion, including the work-energy method, the impulse-momentum method, and an introduction to vibration analysis. Prerequisite: Engineering 208.

**210 Statics and Dynamics (4)**

Objectives include an understanding of equilibrium of particles and rigid bodies subject to concentrated and distributed forces, as well as the kinematics and kinetics of particles and rigid bodies. Four classes per week. Prerequisite: Mathematics 113; Physics 125.

**211 Kinematics and Dynamics of Machinery (3)**

A design oriented course covering theory of machines, and design and analysis of machine elements such as four-bar mechanisms, cams, gears, gear trains, and planetary gear systems. The course makes heavy use of computer methods for both design and analysis techniques. Graphical methods are used to check on computer solutions. Prerequisite: Engineering 209 or 210.

**212 Strength of Materials (3)**

An analysis of the types of stress and deformation in materials. The course uses the methods of mechanics to examine the reactions of materials under a variety of loading conditions, including shear and bending in beams, torsion, and loading of columns. Theories of failure are introduced. Prerequisite: Engineering 209 or 210.

**299 Thermodynamics I (3)**

An introduction to thermodynamic principles including work, heat, properties of pure substances, the first and second laws, entropy, availability, and thermodynamic relations. Prerequisites: Physics 126; Mathematics 113.

**300 Thermodynamics II (4)**

Applied engineering thermodynamics: a study of power and refrigeration cycles, mixtures and solutions, chemical reactions, and some fluid flow applications. Laboratory work provides experience with instrumentation of mechanical systems and reinforces lecture topics. Prerequisite: Engineering 299.

**302 Fluid Mechanics (3)**

A comprehensive, introductory course in fluid mechanics covering hydrostatics; control volume approach to the continuity, momentum, and energy equations; dimensional analysis, similitude, and modeling; introductory boundary layer theory; fluid drag and lift; flow through conduits, pumps and compressors; and introductory compressible flow. Prerequisites: Mathematics 204; Physics 126.

**303 Heat Transfer (3)**

A study of the three modes of heat transfer: conduction, convection, and radiation; with application to heat exchangers. Computer methods of solution are used extensively. Prerequisites: Engineering 302; Computer Science 102.

**304 Microprocessor Interfacing (4)**

Topics include: bus structure, memory, serial I/O, parallel I/O, interrupt driven I/O, grounding and shielding techniques, transmission line effects, encoding of digital data (FM, Manchester, MFM, etc.), analog to digital and digital to analog conversion, characteristics of logic families. Prerequisites: Engineering 204, 206.

**305 Electronics II (4)**

This course begins with a study of the basic physics of solid state devices. Study proceeds to the large and small signal behavior of solid-state devices, typical circuit topologies (such as CE, CB, CC, output stages, differential pairs, etc.), frequency response, feedback, stability and oscillators. The laboratory consists of short design problems. Prerequisites: Engineering 206, 207.

**306 Analog Circuit Design (4)**

Operational amplifiers, voltage regulators, power amplifiers, video amplifiers, modulators, demodulators, phase-locked loops and other analog circuits are studied. Emphasis is on practical applications to open-ended problems and the formulation of design objectives. The laboratory consists of short design problems. Prerequisite: Engineering 305.

**311 Instrumentation and Analysis (4)**

A laboratory and lecture course in instrumentation, measurements, and engineering analysis, primarily for mechanical engineering students. Programming and interfacing a microcomputer with such instruments as temperature transducers, flow meters, strain gages, and robotic manipulators are included. Prerequisites: Engineering 212, 302.

**312 Mechanical Engineering Design Lab I (4)**

This course combines a study of machine design (same as Engineering 315) with a three hour per week laboratory course emphasizing the primary areas of mechanical engineering such as fluid flow, heat transfer, strength of materials, metallurgy, and machine design.

**313 Mechanical Engineering Design Lab II (4)**

This course combines a study of solar energy engineering (same as Engineering 350) with a three hour per week advanced laboratory project course. Prerequisite: Engineering 312.



**315 Machine Design (3)**

A senior level design course covering the fundamentals of mechanical design and the design of machine elements. The student is assumed to have a basic knowledge of statics, strength of materials, and kinematics of machine elements. The first half of the course is an in-depth analysis of stress, static strength, and fatigue strength; while the second half of the course utilizes those analytical tools to establish design procedures for such machine elements as springs, screws and fasteners, bearings, gears, shafts, clutches, brakes, and flexible drive elements. Prerequisites: Engineering 202, 211, 212.

**320 Metallurgy (3)**

The metallurgical fundamentals of structure at the grain, crystal, and atomic levels are considered in relation to material behavior, including deformation and failure mechanisms. The metallurgy of heat treatments and manufacturing methods are studied, and the methods of metallography and materials testing are covered prior to their use in a concurrent mechanical engineering laboratory course. Prerequisite: Engineering 202.

**326 Electromagnetic Fields (4)**

Review of vector calculus: divergence, curl, Gauss' and Stoke's theorems; electro- and magneto-statics: polarization, boundary conditions, Laplace and Poisson equations, magnetic vector potential, energy; Maxwell's equations for time-varying fields, wave propagation, Poynting's theorem. Prerequisites: Physics 215; Mathematics 201, 204.

**341-348 Special Topics in Engineering (3)**

Elective courses designed to treat particular topics in greater detail than would be done in any of the above courses. Topics will depend on the mutual interest of students and staff.

**350 Solar Energy Engineering (3)**

A senior level design course focusing on solar energy as an alternative form of energy for meeting distillation, space heating, domestic hot water, air conditioning, and industrial needs. The thermal processes by which solar radiation is transmitted to and absorbed by a surface, converted into heat, and stored and distributed will be studied. Auditing of building energy loads, conservation procedures, and design of appropriate passive or active solar energy systems are explored. The F-Chart method is studied in detail, with heavy use being made of computer methods, both for load determination and system design. Prerequisite: Engineering 303.

**360 Introduction to Power System Analysis (3)**

An introduction to the design, planning, and operation of electric power utilities, including principles of economic dispatch and politics which impact design and operating strategies. Topics include: power transmission lines, transformers, generators, system modeling, load flow analysis, faults and system stability. Prerequisites: Engineering 207, 326; Mathematics 201, 204.

**362 Control Systems (3)**

A study of the dynamics and automatic control of systems. Topics include: feedback, steady-state operation, transient response, root loci, state-space representation, frequency response, stability criteria and compensation. Many kinds of systems are considered including mechanical, electrical, hydraulic, pneumatic, thermal, and chemical. Structured modeling approaches, state equations, and Laplace transforms are used. Prerequisites: Chemistry 104; Mathematics 204; Physics 215.

**363 Introduction to Communication Systems (3)**

A study of modern communication systems performance and theory with applications in radio, satellite and telephone systems. Topics include: linear modulation (AM, SSB, etc.), exponential modulation (FM and PM), Sampling theory, Pulse modulation (PAM, PWM, PCM, etc.), Digital modulation (ASK, FSK, etc.), elementary consideration of noise. Prerequisites: Engineering 207; Mathematics 201, 204.

**365 Digital Circuit Design (4)**

The course starts with a study of various methods of implementing synchronous sequential circuits, the design of asynchronous sequential circuits, and the avoidance of hazards and races. Exemplary designs of arithmetic logic units, floating point mathematics circuits, controllers, and error correction circuits are discussed. The laboratory component of the course is a student generated senior design project. Prerequisite: Engineering 304.

**390 Technology and Society (3)**

An examination and critique of the relationship of technology to other areas of Western society. During the first half of the course a Christian philosophy of technology is carefully studied and application is made to such problems as the role of the computer, technocracy, appropriate technology, and the historical two-cultures dualism. During the second half the course focuses on the question of engineering ethics, with particular emphasis on such questions as safety and risk, professional responsibility and authority, whistleblowing, responsible salary structures, and morality in career choice. This course requires the student to write and orally present a significant research paper. Prerequisites: Philosophy 201; junior or senior standing.

**391 Individual Studies (3)**

Open to third and fourth year students with permission from the department. See the catalog section "Individual Studies" for application procedures and policies governing individual studies.

**392 Individual Studies (3)**

Same as Engineering 391.

## English

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**General Major—** English 201-202, or 207-208; five courses from English 312, 314, 315, 316, 317, 318; Theatre Arts 364 or 365 and three courses beyond English 200 **or** four courses beyond English 200.

**Teaching Major—**  
(Secondary) English 201-202; one course from English 301, 302; four courses from English 312, 314, 315, 316, 317, 318; English 336, 391; Theatre Arts 364 or 365 and one course beyond English 200 **or** two courses beyond English 200; Education 206 or 326.

*Approval Area*  
45—English

**Teaching Minor—**  
(Secondary) English 201-202; one course from English 301, 302; one course from English 312, 314, 315, 316, 317, 318; English 336; Theatre Arts 364 or 365 and one course beyond English 200 **or** two courses beyond English 200.

*Approval Area*  
45—English

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**100 E.S.L. (English as a Second Language) (3)**

This course is intended to help non-native English speakers improve their verbal and non-verbal communication skills. The course includes practice in listening, speaking, reading, and writing. Students will also learn vocabulary building techniques, note-taking, and various aspects of North American culture.

**101 Grammar and Composition (3)**

Instructors aim to review traditional grammar so that (1) students will have a vocabulary with which to discuss their writing, and (2) students will understand the principles of crafting sentences to express themselves clearly and forcefully. Students will practice these principles and other principles of good writing in writing paragraphs, essays, and in a research paper.

**200 Responding to Literature (3)**

This course deals with selected fiction, poetry, and drama from American and world literature. It stresses appreciation and evaluation of, and response to, these significant works.

**201 American Literature (3)**

Selected prose and poetry of the Puritans and Neo-Classicals, and an extensive study of the American Romantics: Poe, Hawthorne, Emerson, Thoreau, and Whitman.

**202 American Literature (3)**

A study of the rise of early American realism (Howells, James, Twain) naturalism (Crane, Dreiser) and early twentieth century fiction and poetry (Hemingway, Faulkner, Eliot, Frost).



- 203 American Literature (3)**  
A study of fiction and poetry since the 1930's (O'Connor, Updike, Malamud, Lowell, Roethke, etc.).
- 205 Canadian Literature (3)**  
A study of major Canadian fiction writers and poets since 1945, with particular attention paid to recurring themes in modern Canadian literature.
- 207 World Literature (3)**  
The literature studied is from the Greek, Roman, Medieval, and Renaissance periods. All writings are studied in English translation. A paper is required.
- 208 World Literature (3)**  
In this course, masterpieces of European authors from the seventeenth to the twentieth century will be read and discussed. All readings are in English. A paper is required.
- 221 The Short Story (3)**  
Analysis and evaluation of American, British, and Continental stories within the historical framework of the developing genre.
- 222 Themes in Literature (3)**  
The aims of this course are to see how various writers of different cultures and eras expressed themselves on selected universal themes such as love, justice, religious experiences, and man's inhumanity to man.
- 301 Advanced Expository Writing I (3)**  
This course is designed to help both the person who has trouble getting started writing and the person who feels his prose is too wordy, too abstract, or too dead. In other words, the course will stress writing and rewriting, vision and revision. It will be geared for all students, regardless of their major. We will study how to use description, narration, and analogy to aid in exposition, how to describe a process, how to compare and contrast, how to classify. There will also be assignments in analysis, inductive writing, deductive writing, and in definition.
- 302 Advanced Expository Writing II (3)**  
This course will get at some of the same principles as English 301, but will make more use of prose models. Students will work on clarifying the writing's stance, establishing the writer's tone, and gaining force by way of syntax.
- 303 Reading and Writing of Poetry (3)**  
Student writing and evaluation of various types of poetry. The workshop serves as the basic format.
- 304 Fiction Writing (3)**  
The course will consist of a special project in fiction, which the student will work at in personal consultation with the instructor.
- 305 Business and Technical Writing (3)**  
This course will study the process, application, and characteristics of business and technical writing, and the way in which writing style, strategies, content, and clarity will relate practically to one's profession. The course will concentrate on developing competence in a variety of writing tasks commonly performed in business, law, industry, social work, engineering, agricultural and medical sciences.
- 312 Shakespeare and Elizabethan Drama (3)**  
Primary emphasis on a study of Shakespeare's plays: comedies, histories, and tragedies. Some attention to Shakespeare's sonnets, to other Elizabethan playwrights, and to background. One paper.
- 314 Medieval, Renaissance, and Metaphysical Literature (3)**  
Using the historical approach, the course will deal with Beowulf, Chaucer, Sidney, Spenser, Marlowe, Donne, Herbert, Herrick, Jonson, Crashaw, etc.
- 315 Restoration and Eighteenth Century Literature (3)**  
This course emphasizes the major poetry and prose of the Restoration period (1660-1700) and the Eighteenth Century. Excluding the novel, the authors discussed include Milton, Dryden, Bunyan, Pope, Swift, and Samuel Johnson, and the notions of this period as the "Age of Satire" and the "Age of Reason" are examined.

**316 Literature of English Romanticism (3)**

This course deals with the poetry and prose of Burns, Blake, Wordsworth, Coleridge, Lamb, Hazlitt, DeQuincey, Byron, Shelley, and Keats (historical approach).

**317 Literature of the Victorian Age (3)**

This course deals with the poetry, prose, and drama of Carlyle, Newman, J.S. Mill, Tennyson, Browning, Ruskin, Morris, Arnold, the Rossettis, Pater, Wilde, Thompson, Kipling, Dowson, and Hopkins (historical approach).

**318 Modern British Literature (3)**

This course deals with the poetry, prose, and drama of Hardy, Shaw, Conrad, Housman, Yeats, Forster, Woolf, Joyce, Lawrence, Eliot, Leavis, Orwell, Beckett, Pinter, Auden, and Thomas (historical approach).

**321 The American Novel (3)**

This course is a study of the American novel beginning with Charles Brockden Brown and extending through the nineteenth and twentieth centuries. Such authors as Hawthorne, Melville, Crane, Lewis, Hemingway, Faulkner, and Steinbeck will be studied. Lectures, discussions, papers are required.

**322 The English Novel (3)**

The study of the beginning of the English novel with Defoe, Richardson and Fielding, followed by a survey of nineteenth and early twentieth century novelists such as Bronte, Thackeray, Trollope, Dickens, Conrad, and Forster.

**323 Modern and Contemporary English and American Novels (3)**

The study of selected contemporary novels, American and English. Novelists include Bellow, Malamud, Potok, Updike, Burgess, and O'Connor.

**333 History and Theory of Literary Criticism (3)**

In this course we will analyze major works of literary criticism and theory of criticism, both classic works from Plato through Eliot and key works drawn from the ferment of contemporary theory, with the aim of formulating clearer Christian theories of literature.

**335 History of the English Language (3)**

The course surveys the Indo-European languages, the emergence, development, and flowering of the Anglo-Saxon language, the seven English dialects, the Chaucerian dialect and the contributions of the Greek, Latin, and French language and cognate words.

**336 English Grammar (3)**

This course will review traditional grammar and demonstrate how the teaching of writing makes use of grammatical concepts. It will also review standard usage in English and introduce transformational grammar.

**341-348 Special Topics (3)**

These literature courses cover a different topic each year and each is designed to be a special interest course maximizing individual instructor strengths, interests, and competencies. Usually each course will study in-depth the works of two or three literary figures normally not covered as intensively.

**391 Individual Studies (3)**

Open to qualified juniors and seniors with permission from the department. See the catalog section "Individual Studies" for application procedures and policies governing individual studies.

**392 Individual Studies (3)**

Same as English 391.

## English as a Second Language

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### Teaching Minor—

#### (Secondary)

Linguistics 201, 301, 371; English 336; Education 355; Foreign Language 201; Foreign Language 202 or 206; two semesters of foreign language conversation 251-258.



## Environmental Studies

General Major— Environmental Studies 151; Biology 115, 122, 200; Chemistry 101, 102, **or** Chemistry 103, 104; Economics 202, 333; Philosophy 333; Political Science 212, 222; plus six elective courses. The electives may be selected from Biology 204, Engineering 390, Geology 110, Mathematics 107, Political Science 233, 322; **or** from the following courses approved by the Environmental Studies Advisory Committee: up to two courses from several departments; Individual Studies 391, 392; up to four courses from the AuSable Institute of Environmental Studies; up to two courses in the American Studies Program; or up to two courses in the Chicago Metropolitan Program.

### 151 Introduction to Environmental Studies (3)

An introduction to contemporary environmental studies, with emphasis upon class discussion of relationships between human population, resource use, and pollution, in the light of biblical teaching about environmental stewardship.

## French

### 101 Elementary French (4)

Emphasis on the basic structure of the language, core vocabulary, and pronunciation. Assigned work in the language laboratory.

### 102 Elementary French (3)

Continuation of French 101. Prerequisite: one year of high school French or French 101.

### 201 Intermediate French (3)

A review of the grammatical structure of French, with an emphasis on the nature of language. Attention is given to listening, speaking, reading and writing skills, vocabulary, and culture. Prerequisite: two years of high school French or French 102.

### 207 World Literature (3)

See English 207. Students who wish this course to be listed as a French course will be assigned their paper based on French readings.

### 208 World Literature (3)

See English 208. Students who wish this course to be listed as a French course will be assigned their paper based on French readings.

### 251-258 Conversation (1)

The courses are designed to give the student practice in listening and speaking. The content of the courses will be altered each year. The class will meet two times a week; one hour of preparation per week. Prerequisite: French 102.

## General Education

### Area of Concentration (Associate of Arts)

General Studies:

Option A: Any six courses from a single department.

Option B: Any three courses from one department plus any three courses from a second department in the same division.

Option C: Any four courses from one department plus three courses from a department in another division.

Option D: An individualized concentration of eight courses which has been designed in consultation with and approved by the Associate Academic Dean to meet a specific need of the student.

NOTE: IN ALL OPTIONS (A-D), COURSES TAKEN TO MEET GENERAL EDUCATION REQUIREMENTS MAY ALSO BE USED TO MEET THE REQUIREMENTS OF THE CONCENTRATION OPTION.

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**10 Introduction to College (Cr.)**

An introduction to the purposes and procedures of the academic, cultural, and social activities at Dordt College.

**200 Introduction to the Arts (3)**

This course is specifically designed for meeting the general education requirement. The design allows for considerable flexibility. Students choose from a variety of sub-courses in art, drama, and music topics which are of interest to them. Students also fulfill requirements by attending special arts events and lectures.

**300 Calling, Task, and Culture (3)**

A study of common issues involved in being Christ-centered disciples who, after graduating from college, are called upon to implement in practical life (and graduate studies) the "serviceable insights" they have learned. Emphasis will be placed on the nature of Christian witness, need for responsible strategy, and effects of concrete service. Prerequisites: History 100; Theology 101; Philosophy 201; junior or senior standing.

## Geography

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**201 World Regional Geography (3)**

A study of continental areas known as world regions. An integrative approach to the factors which determine regionality and an emphasis on location.

## Geology

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**110 The Earth: Geology and Oceanography (3)**

A descriptive survey of the Earth as a planet. Designed primarily for science majors. Primary emphasis on basic concepts of geology and oceanography. Special attention to Earth's crust, submarine geology, plate tectonics, and interior structure. The history of planet Earth will be discussed in Christian perspective. This course may not be used to meet the two-semester science requirement.

**220 Physical Geology (3)**

An intermediate level study of the nature and structure of planet Earth. Chief attention given to surface processes such as erosion, deposition, glaciation, landforms, and the role of plate tectonics. Prerequisite: Geology 110 or equivalent with permission of instructor.

## German

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General Major— German 201, 202, 206, 302; Linguistics 201; five courses from German 101, 102, 207, 208, 301, 341-348, 391, 392; four semesters of German conversation 251-258. Study abroad courses are recommended.

General Minor— German 201, 202, 206, 302; one course from German 102, 341-348, 391; three semesters of German conversation 251-258. Study abroad courses are recommended.



Teaching Major—  
(Secondary)

German 201, 202, 206, 301, 302, 391; Linguistics 201; two courses (one of which must be in the area of literature) from German 102, 207, 208, 341-348, 392; four semesters of German conversation 251-258. Study abroad courses are recommended.

*Approval Area*  
55—German

Teaching Minor—  
(Secondary)

German 201, 202, 206, 301, 302; one course from 102, 341-348, 391; two semesters of German conversation 251-258. Study abroad courses are recommended.

*Approval Area*  
55—German

**101 Elementary German (4)**

Emphasis on the basic structure of the language, core vocabulary, and pronunciation. Assigned work in the language laboratory.

**102 Elementary German (3)**

Continuation of German 101. Prerequisite: one year of high school German or German 101.

**201 Intermediate German (3)**

A review of the grammatical structure of German, with an emphasis on the nature of language. Attention is given to listening, speaking, reading and writing skills, vocabulary, and culture. Prerequisite: two years of high school German or German 102.

**202 Literary and Cultural Readings (3)**

This course is designed to develop the reading skill and an appreciation for German culture and literature. Emphasis upon contemporary literature. Permission will be granted for individual readings in academic areas of interest to the student. Prerequisite: German 201 or its equivalent.

**206 German Culture (3)**

This course is designed to cover many aspects of the German way of life. Listening and speaking skills will be developed through the classroom activities. Prerequisite: German 201 or its equivalent.

**207 World Literature (3)**

See English 207. Students who wish this course to be listed as a German course will be assigned their paper based on German readings.

**208 World Literature (3)**

See English 208. Students who wish this course to be listed as a German course will be assigned their paper based on German readings.

**251-258 Conversation (1)**

The courses are designed to give the student practice in listening and speaking. The content of the courses will be altered each year. The class will meet two times each week; one hour of preparation per week. Prerequisite: German 102.

**301 German Phonology (3)**

See Linguistics 301. The principles and universals of phonology will be studied. A direct application will be made to the German language.

**302 Advanced German Grammar (3)**

This course is designed for those who desire a better understanding of the structure of the language. The scope of grammar will be approached systematically. Prerequisite: German 201 or its equivalent.

**341-348 Special Topics (3)**

The topics for these courses will be chosen from the areas of literature, advanced language studies, culture, or teaching methods. The offering of the course as well as the content will reflect student interest and need. Prerequisite: departmental approval.

**391 Individual Studies (3)**

Open to qualified juniors and seniors with permission from the department. See the catalog section "Individual Studies" for application procedures and policies governing individual studies.

**392 Individual Studies (3)**

Same as German 391.

## Greek

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**101 Elementary Greek (4)**

Basic structures of the language are dealt with; the relation to Latin and other Indo-European languages is considered. Simple prose readings are considered.

**102 Elementary Greek (4)**

Continuation of Greek 101.

**201 Intermediate Greek (4)**

The course includes a comprehensive review of syntax and forms and readings from various classical authors.

**202 Intermediate Greek (3)**

Continuation of Greek 201. Readings from Plato's *Apology* are used.

**301 New Testament Greek (3)**

This course gives an introduction to **Koine Greek**, works on vocabulary building, and readings from the Synoptic Gospels.

**302 New Testament Greek (3)**

Continuation of Greek 301. Readings from Acts and The Epistles are used.

**341-348 Special Topics (3)**

Courses under this title are designed by the department from year to year to reflect student demand and need. The content of the course will be from the areas of literature, philosophy, theology, archaeology, language, and art.

**391 Individual Studies (3)**

Open to qualified juniors and seniors with permission from the department. See the catalog section "Individual Studies" for application procedures and policies governing individual studies.

**392 Individual Studies (3)**

Same as Greek 391.

## Hebrew

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**101 Elementary Hebrew (4)**

Introduction to the basic structure of the language; survey of the historical development of Hebrew in the context of other Semitic languages; simple readings.

**102 Elementary Hebrew (4)**

Continuation of Hebrew 101. Orientation in reading the Hebrew Bible.

## History

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General Major— History 201, 202; one course from History 212, 213, 214; seven history courses beyond History 100.



Teaching Major—  
(Secondary)

History 201, 202, 391; one course from History 212, 213, 214; two 300-level American history courses; four history courses beyond History 100.

*Approval Areas*

72—American History

73—World History

Teaching Minor—  
(Secondary)

History 100, 201, 202; one course from History 212, 213, 214; two 300-level American history courses; two courses from History 203, 205, 207, 209, 210, 211, 215, 303, 307, 341-348.

*Approval Areas*

72—American History

73—World History

NOTE: if the Social Science teaching minor is also completed, the student will be eligible for 75—All subjects in History and Social Studies.

**100 Western Civilization Since the Renaissance (3)**

A survey of the highlights in the growth and development in western civilization from the Renaissance to the present day.

**201 American History (3)**

Colonization and its antecedents, the Revolution and the development of nationalism, westward expansion, Jacksonian Democracy, the rise of sectionalism, the slavery controversy and the Civil War.

**202 American History (3)**

Continuation of History 201. Reconstruction era, the problems of industrialization, the farm revolt, politics of the Gilded Age, the reform movement, the politics of prosperity and of depression, the United States as a great power, and the United States as leader of the Free World.

**203 Ancient History (3)**

The history of ancient Greece and Rome from the Minoan Age to the end of the Empire in the West, with special attention to the interaction of the Hellenic, Hellenistic, and Roman civilizations.

**205 Medieval Europe (3)**

History of Europe from the height of the Roman Empire in the second century to approximately 1300. The decline of the Roman Empire, the rise of Islam, the development of medieval institutions and the rise of cities will be emphasized.

**207 Renaissance and Reformation Eras (3)**

History of Europe from approximately 1300 to 1648. Such themes as humanism, the cultural renaissance, the rise of Protestantism, the Counter-Reformation, and the development of the modern secular state will be studied.

**209 Nineteenth Century Europe (3)**

History of Europe from the Congress of Vienna to approximately 1890, with most emphasis on Western Europe. Stress will be on political, cultural, and social factors that have influenced European history since 1815. Attention will also be given to outstanding figures such as Metternich, Cavour, Bismarck, Marx, and Darwin.

**210 Twentieth Century Europe (3)**

Continuation of History 209. History of Europe from approximately 1890 to the present, with most emphasis on Western Europe. Focus will be upon such areas as the underlying causes of World War I, the political-social-economic-cultural upheavals between the wars, the impact of World War II, and the problems which face present-day Europe.

**211 History of Canada (3)**

A survey of Canada's history from the age of discovery and exploration to the present. The various forces and individuals which contribute to the making of Canadian nationhood will be stressed, but due time will also be devoted to the racial and sectional issues that have worked against national unity.

**212 Africa and the Middle East (3)**

The roots of contemporary problems and development in Africa and the Middle East are explored and analyzed. The transition from the traditional political, economic and social institutions to the present institutions will be emphasized.

**213 Latin America (3)**

A survey of the history of Latin America from pre-Columbian times to the present. Emphasis will be on the modern period.

**214 The Far East (3)**

A survey of the history of the Far East, including China, Japan, Korea, Southeast Asia, and India.

**215 History of Mexico (3)**

A survey of the history of Mexico from the time of the Spanish conquest to the present. Attention will be given to colonial life, to the reform era of the early republic, and to twentieth century revolutions. Emphasis will also be given to the interaction, development and change of political, economic and social institutions in Mexico.

**303 Modern Russia (3)**

Study of Russia in the nineteenth and twentieth centuries with concentration on internal developments. The revolutionary movements leading to the Communist revolution receive particular emphasis. Includes an examination of the Soviet system as it has evolved since 1917. Prerequisite: junior or senior standing or permission of instructor.

**305 American Problems (3)**

A course designed to pursue in-depth domestic relations that have had an important bearing upon the course of American history. The approach will be a combination of lectures, discussions, and reports emphasizing especially the historiographical material pertinent to each issue studied. Prerequisites: History 201-202 or permission of instructor.

**307 Historiography (3)**

This course concerns itself with the nature and meaning of history and the nature of the historian's task and responsibilities. There will be an emphasis upon review and evaluation of the various schools of history and of the philosophies of leading historians. Prerequisite: assumes a general knowledge of history.

**309 Economic History of the U.S. (3)**

See Economics 309. This course may be taken for either history or economics credit. Prerequisite: permission of instructor.

**341-348 Special Topics (3)**

Each of these courses is devoted to a different topic and each is designed to be a special interest course utilizing individual instructor strengths, interests, and competencies. Each course will be concerned with a topic or period of history not usually treated to any great extent in regularly scheduled courses.

**391 Individual Studies (3)**

Open to qualified juniors and seniors with permission from the department. See the catalog section "Individual Studies" for application procedures and policies governing individual studies.

**392 Individual Studies (3)**

Same as History 391.

## Individual Studies

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**391 Individual Studies (3)**

Individual study of a topic which is interdepartmental or which falls within a department which does not have an individual study option. Permission must be granted by the Associate Academic Dean.



**392 Individual Studies (3)**  
Same as Individual Studies 391.

NOTE: For more information refer to pages 37-38 of the catalog.

## Latin

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**101 Elementary Latin (4)**

This course covers the basic structures of Latin with introductory prose readings.

**201 Intermediate Latin (4)**

Continued work in basic skills, stress on vocabulary. Reading of classical prose, some attention given to the nature of language and the relation of Latin to English and the Romance languages. Prerequisite: two years of high school Latin or Latin 101.

## Linguistics

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**201 Introduction to Linguistics (3)**

A study of the nature of language as it relates to linguistic theories and speakers of languages. Using data taken from English and a variety of other languages, primary attention is given to the sounds and forms of language. Opportunity is provided for students to research a variety of cultural topics related to their major field or personal interest. Prerequisite: Foreign Language 102 or its equivalent. The course is open to freshmen with permission of the language department.

**301 Phonology (3)**

A study of the human speech sounds and sound systems. In the beginning of the course the universal aspects of human speech will be emphasized; then, various applications will be developed in the English language or in various modern languages offered by the foreign language department. (See e.g., German 301).

**371 Practicum of English as a Second Language (ESL) (3)**

This course will offer students the opportunity to practice the principles and methods of teaching ESL. Emphasis will be given to the following areas: pronunciation, conversation, reading, and composition. Prerequisite: departmental approval.

## Management Information Systems

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General Major— Computer Science 111, 115, 120, 201, 202, 210, 301, 371; Mathematics 107, 112; Business Administration 201, 202, 205, 206; Economics 201.

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## Mathematics

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General Major— Mathematics 112, 113, 200, 201, 203, 304, 311; three mathematics courses numbered 200 or above. One course from Computer Science 102, 103, 111 may be substituted for one of the three mathematics electives.

Teaching Major—  
(Secondary)

Mathematics 112, 113, 200, 203, 206, 207, 208, 210, 304, 391; one course from Computer Science 102, 103, 111.

*Approval Area*

58—Mathematics

Teaching Minor—  
(Secondary)

Mathematics 112, 113; three courses from Mathematics 200, 203, 206, 207, 208, 210, 304; one course from Computer Science 102, 103, 111.

*Approval Area*

58—Mathematics

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- 106 Elements of Mathematics (3)**  
An introduction to the contents and methods of mathematics, including some discussion of its historical development.
- 107 Elementary Statistics (3)**  
An elementary course in statistical techniques and methods and their application to a variety of fields.
- 109 Mathematics for the Elementary School Teacher (3)**  
A study of the concepts and techniques underlying elementary school mathematics: set theory, natural numbers, numeration systems, integers, number theory, rational numbers, decimal notation, real numbers, and informal plane geometry. Prerequisite: Mathematics 106 or two years of high school mathematics.
- 110 College Algebra (3)**  
A study of standard pre-calculus topics in algebra and trigonometry. Elementary functions and functional notation are emphasized in preparation for calculus. Prerequisite: three semesters of high school algebra.
- 112 Calculus I (4)**  
A review of analytic geometry and an introduction to the basic concepts of calculus: limits, derivatives, integrals, differentiation and integration, and applications. Prerequisite: Mathematics 110 or equivalent.
- 113 Calculus II (4)**  
Continuation of Mathematics 112; a study of definite integrals, formal differentiation and integration, transcendental functions, sequences, series, and applications. Prerequisite: Mathematics 112.
- 200 Mathematical Proof and Calculus Theory (3)**  
An introductory study of logic and the various methods of proof in mathematics, with application to and development of the theory of single variable calculus. Prerequisite: Mathematics 113.
- 201 Multivariable Calculus (3)**  
A study of the algebra and calculus of vector-valued functions, three dimensional analytic geometry, differential and integral calculus of functions of several variables, line and surface integrals. Prerequisite: Mathematics 113.
- 203 Elementary Linear Algebra (3)**  
An introductory study of vector spaces, linear transformations, matrices, and determinants, with particular emphasis upon solving systems of linear equations. Prerequisite: Mathematics 113.
- 204 Differential Equations (3)**  
An introduction to the theory and techniques of solving elementary differential equations and the use of these techniques in applied problems. Prerequisite: Mathematics 113.
- 206 Introduction to Mathematical Statistics (3)**  
An introduction to the theory and techniques of statistical analysis; probability, random variables, discrete and continuous distributions, estimation, and statistical hypothesis testing. Prerequisite: Mathematics 113.
- 207 Number Theory (3)**  
An introduction to number theory including congruences, residues, Diophantine equations, prime numbers and their distribution, and properties of number-theoretic functions. Prerequisite: Mathematics 112 or permission of instructor.
- 208 Modern Geometry (3)**  
A study of the basic concepts of modern geometry, both Euclidean and non-Euclidean, with some attention given to finite and projective geometry as well. Prerequisite: Mathematics 112 or permission of instructor.
- 209 Numerical Analysis (3)**  
A study of numerical methods for integration, differentiation, calculus of finite differences, and applications, using the computer. Prerequisites: Mathematics 112; Computer Science 102 or 111.
- 210 History of Mathematics (3)**  
A survey of the history of mathematical thought and institutions from ancient times through the seventeenth century, supplemented by a study of various topics chosen from the eighteenth-twentieth centuries. Prerequisite: Mathematics 112 or permission of instructor.



**212 Discrete Structures (3)**

A course relating discrete mathematical structures to computing. Topics included are: sets, relations, functions, equivalence and congruence relations, Boolean algebra, graph theory and matrices. Prerequisite: Mathematics 112 or permission of instructor.

**304 Abstract Algebra I (3)**

An introduction to algebraic structures: groups, rings, integral domains, and fields. Prerequisite: Mathematics 203 or permission of instructor.

**305 Abstract Algebra II (3)**

Continuation of Mathematics 304. A more extensive study of algebraic structures. Prerequisite: Mathematics 304.

**311 Real Analysis I (3)**

An introduction to the content and methods of single variable real analysis: infinite sets, the real number system, sequences, limits, series, continuity, differentiation, and integration. Prerequisite: Mathematics 200 or permission of instructor.

**312 Real Analysis II (3)**

A rigorous study of the theory of real and vector-valued functions of several variables: differentiability, multiple integrals, line and surface integrals, infinite series of functions. Prerequisites: Mathematics 201, 311.

**315 Complex Analysis (3)**

A study of the complex number system, functions of complex numbers, integration, differentiation, power series, residues and poles, and conformal mappings. Prerequisite: Mathematics 311 or permission of instructor.

**317 Topology (3)**

The definition and study of various topologies and their applications in real analysis. Includes the following topics: bases, subbases, connectedness, compactness, completeness, and separation. Prerequisite: Mathematics 200 or 203.

**341-348 Special Topics (3)**

These mathematics courses cover different topics which maximize individual instructor strengths, interests, and competencies. Each course will deal with a topic in mathematics not usually treated to any great extent in regularly scheduled courses.

**391 Individual Studies (3)**

Open to qualified juniors and seniors with permission from the department. See the catalog section "Individual Studies" for application procedures and policies governing individual studies.

**392 Individual Studies (3)**

Same as Mathematics 391.

## Music

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General Major— Music 19, 103, 104, 203, 204, 207, 208, 308, 309, 315; six semesters in one area from 241-276; six ensemble credits; additional courses in music from one area as follows:

1. *History-Literature*: Music 210; one elective course in music.
2. *Theory-Composition*: Music 307; Music 391 or 392.
3. *Organ*: Music 211 or 212; Music 360, 361.
4. *Piano*: Music 350, 351.
5. *Voice*: Music 340, 341.
6. *Instruments*: Music 370, 371.
7. *Church Music*: Music 210, 211, 212.

NOTE: Performance majors (3-6) must audition for acceptance into the program by the end of the sophomore year. Performance majors are required to present a full senior recital and a half junior recital.

## General Minor: Church Music—

Music 103, 104, 210, 211, 212, 315; four semesters of private lessons or ensembles.

## Teaching Major: Choral—

(Secondary) Music 19, 103, 104, 203, 204, 207, 208, 241-244, 309, 312, 313, 315, 323; two semesters from Music 316-319; one course from Music 210, 211, 212, 305, 307, 308; two semesters from Music 245, 246, 251, 252, 261, 262, 271, 272; six ensemble credits.

*Approval Area*

60—Music

## Teaching Major: Instrumental—

(Secondary) Music 19, 103, 104, 203, 204, 207, 208, 305, 309, 312, 314, 315, 316-319, 271-274; two semesters from Music 241-242, 251-252, 261-262, 275-276; one semester of class voice (Music 14); six ensemble credits.

*Approval Area*

60—Music

Teaching Minor— Music 19, 103, 104, 308, 315; one course from Music 313, 314; two courses from Music 203, 204, 207, 208; two semesters of private lessons; four ensemble units.

*Approval Area*

60—Music

### Ensembles

- 10**     **Chorale (1)**
- 11**     **Concert Band (1)**
- 12**     **Concert Choir (1)**
- 20**     **Orchestra (1)**

### Classroom Courses

- 103**     **Music Theory I (4)**  
A basic course in music theory which lays the foundation for basic musicianship and further study in music through development of basic skills in music reading, notation, aural perception, and keyboard. The materials of Western music are studied as a basis for the understanding of music, for discrimination in music, and for composition.
- 104**     **Music Theory II (4)**  
Continuation of Music 103. Prerequisite: Music 103.
- 203**     **Music Theory III (4)**  
A continuation of Music 103-104, with focus on advanced and chromatic harmony. Prerequisite: Music 104.
- 204**     **Music Theory IV (4)**  
An examination of the dissolution of the major-minor tonal system and the resulting new theoretical bases of twentieth-century music. Aural skills related to the analytical and written skills will be pursued. Prerequisite: Music 203.
- 207**     **Music History (3)**  
The historical development of the art of music, showing the cumulative values of music progress through the great eras in history and the relationship of music to the political, economic, and cultural conditions of these areas. Offered in alternate years.
- 208**     **Music History (3)**  
Continuation of Music 207. Offered in alternate years.



**210 History of Music in the Church (3)**

A study of church music from ancient times to the present. Special attention will be given to the development of American hymnody. Offered in alternate years.

**211 Worship and Liturgy (3)**

Inquiry into the relationship of music to principles, patterns, and practices of worship. Biblical-historical perspectives will be applied in analysis of current worship patterns and in building worship and liturgy models. Offered in alternate years.

**212 Church Music Organization and Literature (3)**

A study of the organization of the church music program and appropriate music literature for organ, voice, and instruments. Offered in alternate years.

**305 Arranging (3)**

A detailed study of orchestral, band, and choral arranging. Offered in alternate years.

**307 Composition (3)**

A study of compositional methods, with an emphasis on contemporary techniques. Offered in alternate years.

**308 Music Literature (3)**

This course is designed for the music major, but open to the non-major by consent of the instructor. Intensive and extensive listening will be required. A basic repertory background in several media will be explored. The compositions will be examined and discussed in terms of salient style features and form. Individual projects will be assigned. Offered in alternate years.

**309 Form and Analysis (3)**

A practical and analytical course in the structure of music forms.

**312 Teaching Music in the Elementary School (3)**

A course for music majors and minors designed to provide a detailed study of methods and materials of music education in the elementary school.

**313 Choral Music Education in the Secondary School (3)**

Teaching techniques and materials for the prospective vocal music educator, including advanced choral conducting. Offered in alternate years.

**314 Instrumental Music Education in the Secondary School (3)**

Teaching techniques and materials for the prospective instrumental music educator, including advanced instrumental conducting. Offered in alternate years.

**315 Conducting (3)**

A study of choral and instrumental conducting with corresponding literature. Offered in alternate years.

**342-348 Special Topics (3)**

These courses will vary from year to year, and are designed to meet special student interests and to utilize staff strengths and the talents of experts in the community. Each course will cover material not usually treated in regularly scheduled courses.

**391 Individual Studies (3)**

Open to qualified juniors and seniors with permission from the department. See the catalog section "Individual Studies" for application procedures and policies governing individual studies.

**392 Individual Studies (3)**

Same as Music 391.

**Pedagogy**

Completion of 316-319 is the equivalent of one course toward graduation for instrumental music majors. Completion of 323 plus two semesters of 316-319 is the equivalent of one course toward graduation for choral music majors and elementary education music minors.

**316 Brass Pedagogy (1)**

Methods of teaching brass instruments. Offered in alternate years.

- 317     Woodwind Pedagogy (1)**  
Methods of teaching woodwind instruments. Offered in alternate years.
- 318     String Pedagogy (1)**  
Methods of teaching string instruments. Offered in alternate years.
- 319     Percussion Pedagogy (1)**  
Methods of teaching percussion instruments. Offered in alternate years.
- 323     Vocal Pedagogy (2)**  
Methods of teaching voice.
- 325     Organ Pedagogy and Literature (3)**  
Study of the techniques and methods of teaching organ and survey of literature for the organ.
- 326     Piano Pedagogy and Literature (3)**  
Study of techniques and methods of teaching piano and survey of literature for the piano.

### **Private Instruction**

The following are courses of private instruction for non-music majors and may be repeated.

- 14     Private and Class Voice (1)**
- 15     Private Piano (1)**
- 16     Private Organ (1)**
- 17     Private Instruments (1)**
- 19     Piano Proficiency (0)**

The following are courses of private instruction on their principal instrument for music majors. Semesters of private instruction are numbered consecutively from 1-6. Each semester of private instruction is a prerequisite for the following semester, i.e. a student must successfully complete semester 1 before registering for semester 2, etc. One hour of credit is awarded for each semester. Six semesters of private study is equivalent to two courses towards graduation. Music majors may take a maximum of six semesters from the following:

- 241-246   Private and Class Voice (1 credit hour per semester)**
- 251-256   Private Piano (1 credit hour per semester)**
- 261-266   Private Organ (1 credit hour per semester)**
- 271-276   Private Instruments (1 credit hour per semester)**

The following Advanced Study courses are open only to General Majors.

- 340     Advanced Voice Study (3)**  
Advanced voice literature and recital preparation. By audition. Open only to General Majors in Voice.
- 341     Advanced Voice Study (3)**  
Continuation of Music 340. Open only to General Majors in Voice.
- 350     Advanced Piano Study (3)**  
Advanced piano literature and recital preparation. By audition. Open only to General Majors in Piano.
- 351     Advanced Piano Study (3)**  
Continuation of Music 350. Open only to General Majors in Piano.
- 360     Advanced Organ Study (3)**  
Advanced organ literature and recital preparation. By audition. Open only to General Majors in Organ.
- 361     Advanced Organ Study (3)**  
Continuation of Music 360. Open only to General Majors in Organ.



**370 Advanced Instrumental Study (3)**

Advanced instrumental literature and recital preparation. By audition. Open only to General Majors in an Instrument.

**371 Advanced Instrumental Study (3)**

Continuation of Music 370. Open only to General Majors in an Instrument.

## Natural Science

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General Major— Biology 115, 122, 200, 213, 335; two elective courses in biology; Chemistry 103, 104, 201, 202, 203, 205, 311; Physics 115, 116; Mathematics 112.

Teaching Major—  
(Secondary)

Biology 115, 122, 200, 213, 335; one course in biology numbered 200 or above; Chemistry 103, 104, 201, 202, 203, 205, 311; Physics 115, 116; Mathematics 112; one course from Biology 391, Chemistry 391.

*Approval Areas*

63—Biology

64—Chemistry

65—General Science

88—Physical Science (With Astronomy 121, 122; Geology 110 or Physical Science 201.)

## Philosophy

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General Major— Philosophy 201, 301, 302, 303, 304, 309; five elective courses in philosophy, which may include Engineering 390; one course from Political Science 310, 311, 312, Theology 347.

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**201 Perspectives in Philosophy (3)**

An introduction to the nature, task, and basic problems of philosophy, its relationship to worldview, and a survey of its history.

**202 Logic (3)**

An introduction to the study of logic, both deductive and inductive, focusing on its systematic, philosophical, and historical development.

**301 Ancient Philosophy: The Dawn of Western Thought (3)**

A study of the pagan roots of the thought patterns that shape our contemporary world. The course is designed for students interested in the philosophical and historical origins of our modern scientific culture. Readings in primary sources and a paper.

**302 Medieval Philosophy: Medieval Roots of Modern and Contemporary Thought (3)**

A study of the medieval thought patterns that shaped our contemporary world. The course is designed for students interested in the history of philosophy, theology, and science. Readings in primary sources and a paper.

**303 History of Modern Philosophy (3)**

A survey of philosophical problems and movements in the Western world from the end of the fifteenth century to the middle of the nineteenth century. Readings in primary sources.

**304 History of Contemporary Philosophy (3)**

A survey of philosophical problems and movements in the Western world from the middle of the nineteenth century to the present. Readings mainly in primary sources.

**306 Aesthetics (3)**

A study of the aesthetic dimension of creation, of the nature and qualifying function of artistic activity and artifacts, and an introduction to general aesthetic theory and its history. Prerequisite: Philosophy 201.

**309 History of Christian Philosophy (3)**

An analysis of the origin and development of Christian philosophy, since the Reformation, in the context of Western thought. Prerequisite: Philosophy 201. Philosophy majors are advised to complete the history of philosophy sequence before taking Philosophy 309.

**310 Systematics of Christian Philosophy (3)**

An in-depth study of selected topics in the systematic philosophy of twentieth century Christian philosophers. Specific attention will usually be given to the conceptions of people like Dooyeweerd, Stoker, Vollenhoven and or those who follow in their line. Prerequisite: Philosophy 201.

**320 Philosophy of the Social Sciences (3)**

A study of contemporary views of society (e.g., behaviorism, symbolic interactionism, neomarxism), of the philosophical foundations of the social sciences and their methods, and of current attempts on the part of Christians to address these matters. Prerequisites: Philosophy 201; preferably junior or senior standing, with at least one course in economics, psychology, sociology, or political science.

**333 Philosophy of the Environment (3)**

An historical and systematic study of the structure and normed character of the various relationships between human beings and their environment. Prerequisites: Philosophy 201; junior or senior standing.

**341-348 Special Topics (3)**

Each of these courses is designed to be a special interest course utilizing individual instructor strengths, interests, and competencies. Each topic will be concerned with material not usually treated to any great extent in regularly scheduled courses.

**350 Philosophical Anthropology (3)**

A survey of different non-Christian views about the nature, place, and task of man, and a study of the main themes of a Christian theory of man. Prerequisite: Philosophy 201. Open to juniors and seniors in all disciplines.

**391 Individual Studies (3)**

Open to qualified juniors and seniors with permission from the department. See the catalog section "Individual Studies" for application procedures and policies governing individual studies.

**392 Individual Studies (3)**

Same as Philosophy 391.

## Physical Education

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General Major— Physical Education 201, 203, 204, 205, 207, 208, 209, 304, 305; two courses from Physical Education 206, 210, 211, 212, 213, 306.

General Minor: Recreation—

Physical Education 206, 207, 210, 390; Business Administration 205; two courses from Business Administration 206, Communication 222, 228, Political Science 214, Psychology 210.

Teaching Major—  
(Secondary)

Physical Education 18, 24, 25, 201, 203, 204, 205, 207, 208, 209, 212, 304, 305, 391; one course from Physical Education 206, 210, 211, 213, 306. For vertical certification Physical Education 306 is also required. Physical Education 25 is not required for students who demonstrate Red Cross swimming proficiency.

Approval Areas

62—Physical Education

(Coaching Endorsement 55)



Teaching Minor—  
(Secondary)

Physical Education 25, 201, 203, 204, 205, 207, 212, 304; one course from Physical Education 208, 209, 211, 213, 305, 306, 391.

*Approval Areas*

62—Physical Education

(Coaching Endorsement 55)

**10 Concepts in Physical Education (1) P/F**

A study of the concept of fitness and health from a Christian view of humankind. Designed to help students evaluate their own physical needs and strengths. This course assists students in developing their personal exercise and activity program. Preferably should be taken in the freshman year.

**11 Adaptive Program (Cr.)**

Restricted activity for students with physical disabilities. Prerequisite: recommendation by a medical doctor.

**12 Aerobic Dance (Cr.)**

An opportunity for students to work on a personal fitness program through vigorous exercises to music.

**13 Badminton (Cr.)**

Development of skills, techniques and participation in beginning badminton.

**14 Bicycling (Cr.)**

Emphasis will be placed on bicycle safety and recreational use of bicycling.

**15 Bowling (Cr.)**

Development of skills and knowledge in bowling necessary for the recreational purposes of the beginner.

**16 Cross-Country Skiing (Cr.)**

The skills and techniques of this popular sport will be taught and practiced.

**17 Golf (Cr.)**

Beginning golf in which students will be taught the skills of the sport. Students must furnish their own clubs. No green fees for class work.

**18 Gymnastics-Floor Exercise (Cr.)**

Development of beginning and intermediate skills and techniques in gymnastics and tumbling, including work in free exercise.

**19 Gymnastics-Apparatus (Cr.)**

Development of beginning and intermediate skills in gymnastics. Course will include parallel bars, balance beam, sidehorse, vaulting, rings and uneven bars.

**20 Personalized Program (Cr.)**

A student may earn credit in a unique skill area that is not taught at Dordt. Examples: Judo, Karate, Scuba diving, etc.

**21 Physical Fitness (Cr.)**

Knowledge, development and maintenance of personal physical fitness through the use of aerobics, calisthenics, the "exergenie", etc.

**22 Racquetball (Cr.)**

Skills and techniques of racquetball.

**23 Slow Pitch Softball (Cr.)**

Development of skills in softball and the opportunity to participate in a currently popular sport.

**24 Square and Folk Dance (Cr.)**

An opportunity for students to participate in square dance and folk dances from various countries.

**25 Swimming (Cr.)**

Several sections are offered each semester. Each section is divided for non-swimmers, intermediate, and advanced swimmers. Senior Life Saving and WSI certificates can be earned through special arrangements.

- 26 Tennis (Cr.)**  
Development of skills and knowledge in tennis.
- 27 Volleyball (Cr.)**  
Development of skills and techniques, and participation in power volleyball.
- 28 Weight Training (Cr.)**  
A well-rounded weight training program with carry-over recreational emphasis.
- 201 Introduction to Physical Education (3)**  
Intended to orient the student to professional work in the field of physical education. Acquaints the student with outstanding leaders and their contributions, the history and the changing philosophies of physical education.
- 203 Anatomy and Kinesiology (3)**  
A study of the skeletal system, nervous and muscular systems, with special emphasis on the mechanics of body motion and the relationship of anatomic structure to principles of physical education.
- 204 Physiology of Physical Activity (3)**  
A study of muscles, blood, heart, blood vessels, lungs and respiratory mechanism. Detailed study will be focused on the chronic and acute adjustments of these organs to exercise of varying intensities. Prerequisite: Physical Education 203.
- 205 Organization of Physical Education and Intramurals (3)**  
This course will provide the student with the necessary background in organizing and administering a desirable curriculum in physical education (elementary through high school) including intramurals.
- 206 Recreational Leadership (3)**  
A study of leadership principles and their relationship to the field of recreation. The course is intended to give the necessary background and experience which would enable the student to work in a variety of recreational settings.
- 207 Care and Prevention of Athletic Injuries (3)**  
A study of accepted methods used to prevent athletic injuries. Instruction in administering first aid practices in emergencies. First semester with an emphasis on the elementary school child, second semester focusing on participants in interscholastic sports. (This course is not open to freshmen. It is intended during the second semester for physical education majors and minors only.)
- 208 Tests and Measurements in Physical Education (3)**  
A study which includes elementary statistical procedures; the preparation and administration of tests in strength, flexibility, %body fat, cardiovascular and various athletic skills.
- 209 Personal and Community Health (3)**  
A study of the physical, mental, and social dynamics of health with attention to the development of wholesome attitudes and habits of living; the recognition of problems requiring group action; and the methods of solving community health problems.
- 210 Community Recreation (3)**  
The development of the principles, history, and philosophy governing recreation in the community along with the place of the agencies that are involved in community recreation will be studied.
- 211 Nutrition and Physical Fitness (3)**  
A study of the essential nutrients and their functions. Attention will be given to meal planning, weight control, and diets for special conditions.
- 212 Coaching Theory of Basketball and Track and Field (3)**  
Eight weeks will be devoted to each sport. Emphasis on coaching skills, philosophies, and modern techniques of basketball and track. (Open to juniors and seniors only. Taught second semester. Student has option of taking second half of Physical Education 213.)
- 213 Coaching Theory of Volleyball and Baseball/Softball (3)**  
Eight weeks will be devoted to each sport. Emphasis on coaching skills, philosophies, and modern techniques of volleyball and baseball/softball. (Open to juniors and seniors only. Taught second semester. Student has option of taking second half of Physical Education 212.)



**304 Skills and Methods I (3)**

This course has a fourfold purpose. 1) To study the methodology associated with the teaching of team and individual sports in physical education. 2) To allow each student to experiment with the various methods in a laboratory setting. 3) To develop skill in the analysis of teaching in physical education. 4) To develop personal participation skills. The emphasis will be on individual and dual activities. Major and minor students only.

**305 Skills and Methods II (3)**

This course is a continuation of Physical Education 304. It is to be taken in the second semester of the same year in which Physical Education 304 is taken. The emphasis will be on team and group activities. Major and minor students only. Prerequisite: Physical Education 304.

**306 Elementary Physical Education Skills and Methods (3)**

This course is designed to provide a background for teaching physical education to elementary school children. This course is only open to professional physical education students.

**361 Field Experience in Physical Therapy (3)**

This course is designed to give students enrolled in the pre-physical therapy program a field experience in physical therapy. The student will work with a registered physical therapist for three hours each week of the semester. This course is open to junior and senior students enrolled in the pre-physical therapy program.

**381 Senior Education Seminar (3)**

The primary emphasis of this course will be on developing a solid Christian perspective on contemporary trends and problems facing the physical educator. The format of the course allows for both teacher and student led discussions of relevant topics for physical educators.

**390 Field Experience in Recreation (3)**

This course is designed to give students the opportunity to do a practicum in a recreation setting. The student will work under the supervision of a professional recreation leader for three hours each week of the semester. This course is open to junior and senior students who are enrolled in the recreation minor program. Permission must be obtained from the college supervisor before enrolling in the course.

**391 Individual Studies (3)**

Open to qualified juniors and seniors with permission from the department. See the catalog section "Individual Studies" for application procedures and policies governing individual studies.

**392 Individual Studies (3)**

Same as Physical Education 391.

## Physical Science

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**Teaching Minor—**

(Secondary)

Astronomy 121, 122; Chemistry 103, 104; Physics 115, 116; one course from Geology 110, Physical Science 201; one course from Chemistry 201, 202, 203, 301, 302, 311, 312, Physics 206, 215.

*Approval Area*

88—Physical Science

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**107 Introduction to Physical Science (3)**

An introductory survey of the physical sciences with particular emphasis upon astronomy and geology. Attention will be given to the relationship between scientific discovery and theory in these sciences and the Christian faith. This course meets three hours a week.

**201 Perspectives in Physical Science (3)**

The coherence existing in the physical aspect of creation is used to develop a Christian attitude toward physical science. Various schools of thought are examined; differences between Christian and non-Christian approaches are included. Prerequisite: one year of high school physical science or a college course in one of the sciences. Open only to upperclassmen.

## Physics

General Major	Physics 125, 126, 206, 215, 325, 326, 335, 336; Chemistry 301, 302; Mathematics 112, 113, 201, 204.
Teaching Major— (Secondary)	Physics 125, 126, 206, 215, 325, 335, 336; Chemistry 301; Mathematics 112, 113, 201, 204; one course from Physics 301-305, 326, 391. <i>Approval Areas</i> 66—Physics 88—Physical Science (With Astronomy 121, 122; Geology 110 or Physical Science 201.)
Teaching Minor— (Secondary)	Physics 125, 126, 206, 215, 325; one course from physics or astronomy. <i>Approval Area</i> 66—Physics

### 115 General Physics (4)

An introduction to the study of the physical aspect of reality. Topics covered include mechanics, kinetic theory, heat, thermodynamics, waves, and sound. Three lectures and one laboratory period per week.

### 116 General Physics (4)

Continuation of Physics 115. Light, electricity and magnetism, and topics in modern physics, e.g. quantum theory, relativity, physics of the atomic nucleus. Three lectures and one laboratory period per week.

### 125 Introductory Physics I: Mechanics (4)

An introduction to the study of the physical aspect of reality for students intending to continue in the physical sciences and engineering. Statics, linear and rotational dynamics, and gravitation will be covered. Three lectures and one laboratory period per week. Pre or corequisite: Mathematics 113.

### 126 Introductory Physics II: Fluids, Waves, Heat, Electricity, and Magnetism (4)

Continuation of Physics 125. Topics covered include fluid statics and dynamics, waves, heat and thermodynamics, and electricity and magnetism. Three lectures and one laboratory per week. Prerequisite: Physics 125.

### 206 Electronics (4)

An introductory course. Topics include: definitions of Voltage, Current, Resistance, Capacitance, Inductance; Kirchhoff's laws; simple nodal and mesh analysis; equivalent circuits; DC and AC analysis; diodes; bipolar and field effect transistors; biasing; small-signal analysis; and operational amplifiers. Laboratory exercises cover basic measurement techniques and typical applications of diodes, transistors, and operational amplifiers. Prerequisite: Mathematics 113. Corequisite: Mathematics 204.

### 215 Introductory Physics III: Electricity and Magnetism, Electromagnetic Waves, Optics, and Modern Physics (3)

Continuation of Physics 126. Topics covered include continuation of electricity and magnetism, electromagnetic waves, optics, quantum physics and topics in modern physics. Three lectures per week. Prerequisite: Physics 126.

### 301-305 Research (1)

Original research in experimental or theoretical physics on an approved topic supervised by departmental staff. Prerequisites: Physics 116 or 126; permission of department.

### 325 Theoretical Mechanics (4)

Lagrangian and Hamiltonian dynamics, general rigid body motion, theory of vibrations and waves, relativistic particle mechanics are studied. Three lectures per week. Prerequisites: Physics 215; Mathematics 201, 204.



**326 Electromagnetic Theory (4)**

Review of vector calculus: divergence, curl, Gauss' and Stoke's theorems; electro- and magneto-statics: polarization, boundary conditions, Laplace and Poisson equations, magnetic vector potential, energy: Maxwell's equations for time-varying fields, wave propagation, Poynting's theorem. Prerequisites: Physics 215; Mathematics 201, 204.

**335 Modern Physics (4)**

Developments in modern physics: special relativity, atomic nature of matter and electricity, wave and particle aspects of electrons and light, quantum theory. Three lectures and one laboratory period per week. Prerequisites: Physics 215; Mathematics 201, 204.

**336 Modern Physics (3)**

Continuation of Physics 335. A study of atomic and molecular structure, solid state physics, quantum statistics and nuclear physics. Three lectures per week. Prerequisites: Physics 335; Mathematics 201, 204.

**341-348 Special Topics (3)**

These courses cover areas in physics not already discussed in other courses. They are special interest courses offered on the basis of student demand and instructor competency and availability. The prerequisite(s) will depend on the topics covered.

**391 Individual Studies (3)**

Open to qualified juniors and seniors with permission from the department. See the catalog section "Individual Studies" for application procedures and policies governing individual studies.

**392 Individual Studies (3)**

Same as Physics 391.

## Political Science

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General Major— Political Science 201, 212, 214, 222, 370; five elective courses in political science.

General Minor— Political Science 201, 212, 214, 222; one course from Political Science 310, 311, 312, 313, 322; one course from Political Science 210, 220, 233, 370.

Teaching Minor—  
(Secondary) Political Science 201, 212, 214, 220, 222; two courses from Political Science 233, 310, 311, 312, 313, 370.

*Approval Area*

71—American Government

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**201 Introduction to Politics (3)**

An introduction to the political dimension of life from a biblically oriented perspective. This course examines the components (e.g. political culture, ideology, institutions, etc.) which shape and direct the principles and practice of politics in the contemporary world. Special attention is given to a major world issue (e.g. nuclear arms) to stimulate students to develop a Christian political consciousness.

**210 International Relations (3)**

An introduction to the contemporary relations among nations with a consideration of the issues of war and peace, international organizations, law, integration, economic interdependence and relations among the superpowers.

**212 American National Politics (3)**

A general introduction to the American political process—its foundations, external influences, institutions, political actors and policy output.

**214 Community Politics (3)**

This course provides a basic introduction to the political process at the state and municipal level, examining the role of the individual citizen, various groups, and governmental institutions. Attention is given to the special policy needs at the state and community level, their links with the federal government and the particular character of local politics.

**220 Parties, Elections and Voting Behavior (3)**

An examination of contemporary forms of political participation in the United States on the party system, voting behavior, the presidential selection process, and the influences on the American electoral process.

**222 Public Policy (3)**

This course provides a general introduction to the public policy process in the United States, including an exploration of the socio-economic and cultural context, the defining characteristics of the political system, and various phases in the policy process. Special attention is given to selected policy issues.

**233 Comparative Government and Policy (3)**

An introduction to the politics and government of Western Europe and the Soviet Union with an emphasis on the relationship between the political culture, the political system and policy output. Consideration is given to consociational democracy as an alternative to the majoritarian model, and its effects on public policy.

**310 Foundations of Political Thought (3)**

A study of the emergence and development of political thought, examining the contributions of Plato, Aristotle, Augustine, Aquinas and others through the use of both primary and secondary sources.

**311 Modern Political Thought (3)**

The emergence and triumph of secular humanism as the foundation of a new conception of politics considered by an investigation of the work of Machiavelli, Hobbes, Locke, Rousseau, Hegel, Marx, and others through the nineteenth century.

**312 Contemporary Political Ideologies (3)**

This course explores the competing views of the social order and the state embodied in the major ideologies and movements of the twentieth century, such as communism, socialism, liberalism, fascism, nationalism, and contemporary American variations (e.g., neoconservatism, neoliberalism, feminism, New Left).

**313 American Political Thought (3)**

This course is a comparative study of the assumptions, promises, and problems in the American Liberal tradition. Special attention is given to the development of the Liberal tradition from its origin in the American Revolution through the Civil War.

**322 American Constitutional Law (3)**

The American Constitution as interpreted by the Supreme Court. An analysis of leading cases contributing to an understanding of both the historical development of constitutional law and the recent developments in constitutional law in reference to civil liberties. (This course may apply toward the history major.)

**341-348 Special Topics (3)**

Each of these courses is designed to be of special interest and value to students utilizing strengths and skills of individual instructors. Each topic is concerned with material not normally treated in depth in regularly scheduled courses.

**370 Peace and Security in the Nuclear Age (3)**

In this advanced seminar course, the class examines various aspects of the arms race (historical development, strategic doctrine, effects on society, etc.) and discusses different perspectives (pacifism, just war) that shape policy in this area. Required of majors and open to students of all majors.

**391 Individual Studies (3)**

Open to qualified juniors and seniors with permission from the department. See the catalog section "Individual Studies" for application procedures and policies governing individual studies.

**392 Individual Studies (3)**

Same as Political Science 391.

## Psychology

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General Major— Psychology 201, 207, 301, 310; six courses in psychology.



## Teaching Minor—

(Secondary) Psychology 201, 207, 210; four courses in psychology.

Approval Area

87—Psychology

**201 General Psychology (3)**

An introduction to the field of psychology. The course surveys the areas of motivation, perception, learning, personality, and development. Consideration is given to various philosophical presuppositions and underlying contemporary psychology, and an attempt is made to understand the various problems in terms of a biblical view of man.

**205 Developmental Psychology I (3)**

The study of the growth and development of the individual from conception through adulthood, focusing on personality, cognitive, moral, and social development. This is the first course in a two course sequence with particular emphasis on the prenatal through early adolescent development stages. Prerequisite: Psychology 201.

**206 Developmental Psychology II (3)**

A continuation of Psychology 205 with particular emphasis on the adolescent through adult stages of development. Prerequisite: Psychology 201. Recommended: Psychology 205.

**207 Elementary Statistics (3)**

An elementary course in probability theory, statistical techniques and methods, and the application of these techniques to the field of psychology.

**210 Social Psychology (3)**

The study of individual psychological processes as they influence and are influenced by socio-cultural situations, with extended treatment given to impression formation, nonverbal communication, attitudes and persuasion, conformity and commitment, group processes, interpersonal attraction and sexuality, social motives, and the problems of prejudice, and discrimination. Prerequisite: Psychology 201.

**221 Physiological Psychology (3)**

An introduction to the physiological/biological processes involved in human psychology. Primary emphasis will be on relating brain and nervous system functioning with basic psychological processes, such as motivation, emotion, sleeping, learning, memory, and abnormal behavior. In addition, several topical areas will be addressed including alcoholism, drug addiction, homosexuality, physiology of sexual differences, psychosomatic disorders, and a Christian perspective on the mind-body-soul dilemma. Prerequisite: Psychology 201.

**225 Abnormal Psychology (3)**

A study of the development and symptoms of emotional and behavioral problems. Topics covered will include: neurosis, schizophrenia, sexual deviations, affective disorders, personality disorders, psychosomatic disorders, and the process of adjustment to stress. Attention will be given to personality, social and religious factors, and their role in mental health. Prerequisite: Psychology 201.

**301 Experimental Psychology (4)**

Application of experimental methodology to primarily the areas of learning and perception. Exercises in laboratory research and formal written reports will be required. The experimental method itself will be evaluated in light of current studies of experimenter bias and experimenter effects and the relationship between the experimental method and the Christian faith discussed. Three lectures and one laboratory period per week. Prerequisites: Psychology 201, 207.

**302 Learning and Behavior Modification (3)**

The study of the basic processes of learning along with the major theories and research which have been used to investigate the learning process. The major positions in the field to be examined will include: classical conditioning, operant conditioning, and cognitive approaches to learning. A major emphasis will be to compare behavioristic and cognitive approaches to learning, assessing both in the light of God's Word. Extensive consideration will also be given to the use of behavior modification techniques and biofeedback in clinical and educational settings and how Christians should approach such techniques.

**303 Theories of Personality (3)**

Study of the structure and nature of personality as viewed by Freud, Jung, Adler, Fromm, Horney, Sullivan, Murray, Lewin, Allport, Rogers, behavioristic theories and several Christian-oriented theories. Prerequisite: Psychology 201.

**304 Psychological Testing (3)**

This course is designed to introduce the student to the theory and practice of psychological assessment. The course will cover the basic areas of testing theory, test construction, testing statistics and test evaluation. Students will learn how to administer, score and interpret test results. Students will be given practice in the fundamentals of report writing. The course will introduce the students to personality, vocational, interest, and intelligence testing. Prerequisites: Psychology 207; junior or senior standing. Recommended: Psychology 303.

**310 History and Systems of Psychology (3)**

A brief study of the historical development of psychological theories from the ancient world to the present, with extended treatment given to major contemporary movements or perspectives in psychology (especially psychoanalysis, behaviorism, humanism, and phenomenology) and to recent attempts by Christians to "integrate" theology and psychology. Prerequisites: Psychology 201; Philosophy 201.

**315 Introduction to Counseling (3)**

Introductory course in counseling theory emphasizing the dynamics of the counseling process and characteristics of the counseling relationship in the light of biblical directives concerning human nature, purpose, responsibility and conduct. Prerequisites: a minimum of three courses in psychology; junior or senior standing.

**341-348 Special Topics (3)**

Each of these courses is designed to be a special interest course utilizing individual instructor strengths, interests, and competencies. Each topic will be concerned with material not usually treated to any great extent in regularly scheduled courses.

**391 Individual Studies (3)**

Open to qualified juniors and seniors with permission from the department. See the catalog section "Individual Studies" for application procedures and policies governing individual studies.

**392 Individual Studies (3)**

Same as Psychology 391.

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## Reading

**Teaching Minor—**

(Secondary)

Education 206, 303, 326, 327; Linguistics 201; one course from Linguistics 301, 371; English 301.

*Approval Area*

91—Reading

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## Social Science

**General Major—**

History 201, 202; four history courses numbered 200 or above; Economics 201, 202; Political Science 201, 212; Sociology 201, 207, 210; Sociology 215 or 216; three courses from economics, history, political science, and sociology.

**Teaching Major—**

(Secondary)

Economics 201, 202; Geography 201; History 100, 201, 202, 391; Political Science 201, 212; Sociology 201, 207; Sociology 215 or 216; one course from History 212, 213, 214; two courses from History 203, 205, 207, 209, 210, 211, 215, 303, 341-348; two 300-level American history courses; two



courses from Economics 303, 305, 315; two courses from Political Science 214, 220, 222, 233, 310, 311, 312; one course from Sociology 210, 215, 216, 301, 302.

*Approval Areas*

72—American History

73—World History

75—All subjects in History and Social Science

Teaching Minor— (taken with history major)  
(Secondary)

Economics 201, 202; Political Science 201, 212; Sociology 201; Sociology 215 or 216; Geography 201; one course from Economics 303, 305, 315; one course from Political Science 214, 220, 233, 310, 311, 312; one course from Sociology 207, 210, 215, 216, 301, 302.

*Approval Area*

\*75—All subjects in History and Social Science

\*If combined with a history major

## Social Work

NOTE: See Social Work Program, pages 39-40 for general information about the Social Work Program and the requirements for application to the program.

General Major— Psychology 205, 210; Social Work 225, 226, 303, 304, 310, 312, 315, 325, 374; Sociology 207, 307; Sociology 215 or 216.

### 225 Introduction to Social Work (3)

A survey of the major fields of social work practice and of the problems with which they deal. It will include agency field visits. Overarching this survey will be a concern for the Christian's individual and collective responsibility for the health and welfare of his neighbor and community.

### 226 The History and Philosophy of Social Welfare and Social Work (3)

This course will examine the history and development of social welfare; and the philosophy, theory, and practice of social work as a response to the health and welfare needs of society. Prerequisite: Social Work 225 or permission of instructor.

### 303 Child and Family Welfare Policy (3)

A study of child and family welfare policy and practice including an analysis of how society's ideological, political, and economic concerns affect agency organization and practice. Prerequisite: Social Work 315 or permission of instructor.

### 304 Aging and Social Work (3)

An in-depth examination of the myths and realities of aging in western culture. Combining sociological theory and practice, this course introduces the student to ageism, physiological and psychological change over time, theories of social gerontology as well as current issues such as health policy, retirement, the extent of family support, institutionalization and the aged in the political arena. Will include field work assignments with older persons, guest speakers and site visits to programs for the aging. Prerequisite: Social Work 315 or permission of instructor.

### 310 Practice Methods I (3)

An overview of general systems theory as a basis for developing an integrated social work practice model. Special emphasis will be given to the development of student interactional skills on individual and group levels. Prerequisites: Social Work 226; Sociology 210; Psychology 205; or permission of instructor.

### 312 Practice Methods II (3)

A continuation of Social Work 310 with an emphasis on practice on the institution and community levels. (Open only to senior social work majors.) Prerequisite: Social Work 310 or permission of instructor.

**315 Social Welfare Policy (3)**

Through a series of outside readings and exercises, students apply Scriptural principles and build critical skills in the area of social welfare policy. The value base for current social policy is examined and current ways of delivering human services are critiqued. Topics covered include how benefits are allocated, welfare reform, cost-effectiveness analysis, program development, public finance, block grants and grant writing, human service budgeting and political advocacy. Prerequisite: Social Work 226 or permission of instructor.

**325 Integrative Seminar in Social Work (3)**

An opportunity for students to reflect on and tie together the academic and field work experience with a special emphasis on discussion regarding major practice and value dilemmas confronted by the student. (Open only to senior social work majors.) Prerequisites: Social Work 312, 315; Sociology 307; or permission of instructor.

**374 Field Work Experience (12)**

The field work course is designed to provide the student with the opportunity to learn to apply and use the knowledge, principles, and skills gained in the classroom in a helping situation toward the development of the student as a social worker. (Open only to senior social work majors.) Prerequisites: Social Work 312, 315; Sociology 307; or permission of instructor.

## Sociology

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General Major— Sociology 201, 207, 210, 301, 307; five courses from sociology and/or Social Work 303, 304, 315.

Teaching Minor—  
(Secondary) Sociology 201, 207, 210; Sociology 215 or 216; three courses from sociology and/or Social Work 225, 303, 304.

Approval Area

74—Sociology

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**201 Principles of Sociology (3)**

Sociology focuses on the social landscape which shapes how we think, feel and behave. The course introduces the field of sociology and provides an overview of major sociological topics, such as culture, socialization, deviance, minorities, sex roles, the family, religion and population. Students are encouraged to critique sociological theory from a biblical basis and build a Christian sociological perspective.

**207 Elementary Statistics (3)**

An elementary course in probability theory, statistical techniques and methods, and the application of these techniques to the field of sociology.

**210 Social Psychology (3)**

A study of the individual in relation to social situations including treatment of social motivation, attitude development and change, conscience formation, conformity, and small group interaction. Prerequisite: Psychology 201 or Sociology 201.

**215 Sociology of Deviance (3)**

An analysis of the extent, pattern and causes of deviancy in modern society in the light of the biblical view of man. Major attention is given to behavior which differs from social expectations in the areas of crime and the criminal justice system, drug use, alcoholism, mental disorders, and sexual deviance. Prerequisite: Sociology 201.

**216 Racial and Ethnic Minorities in Society (3)**

This course examines the historical and contemporary aspects of racism and prejudice in North America while increasing knowledge and appreciation of the contributions and life styles of minority groups in culturally pluralistic societies. Human diversity, instead of something to be tolerated, is treated as an asset and human rights, regardless of race or color, are to be respected. Students assess their own prejudices in light of the course knowledge base and gain first-hand experience with minority subcultures. Knowledge, attitudes and skills are integrated to provide social science, education, and other students an opportunity to increase knowledge of, and sensitivity to, cultural pluralism and strategies for interaction for use in the classroom, in various professions, and in a student's everyday living.



**301 Sociological Theory and History (3)**

The development of sociology with emphasis on its European background and formative stage in twentieth century United States. Appraisal of the major schools of sociological thought with special emphasis upon the theoretical development in contemporary sociology in Europe and North America. Prerequisite: Sociology 201.

**302 Marriage and Family (3)**

A study of contemporary marriage and family, which includes an analysis of how society impacts on family and marriage. The course actively seeks to place current issues and themes within a Christian perspective (sex roles, sexuality, work and marriage, divorce, remarriage). Prerequisite: junior or senior standing or permission of instructor.

**307 Methods of Social Science Research (3)**

An introduction to the research process as applied to the study of problems/issues in social science. Problem selection, research design, measurement, methods of observation and data collection, data analysis and interpretation and report-writing will be emphasized. A module on microcomputer utilization and the application of descriptive statistics is presented for application in student projects. Prerequisites: Sociology 207; Mathematics 107; Psychology 207; junior or senior standing.

**341-348 Special Topics (3)**

Each of these courses is designed to be a special interest course utilizing individual instructor strengths, interests, and competencies. Each topic will be concerned with material not usually treated to any great extent in regularly scheduled courses.

**391 Individual Studies (3)**

Open to qualified juniors and seniors with permission from the department. See the catalog section "Individual Studies" for application procedures and policies governing individual studies.

**392 Individual Studies (3)**

Same as Sociology 391.

## Spanish

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General Major— Spanish 201, 202, 206, 302; Linguistics 201; five courses from Spanish 101, 102, 207, 208, 301, 341-348, 391, 392; four semesters of Spanish conversation 251-258. Study abroad courses are recommended.

General Minor— Spanish 201, 202, 206, 302; one course from Spanish 102, 341-348, 391; three semesters of Spanish conversation 251-258. Study abroad courses are recommended.

Teaching Major—  
(Secondary)

Spanish 201, 202, 206, 301, 302, 391; Linguistics 201; two courses (one of which must be in the area of literature) from Spanish 102, 207, 208, 341-348, 392; four semesters of Spanish conversation 251-258. Study abroad courses are recommended.

*Approval Area*

57—Spanish

Teaching Minor—  
(Secondary)

Spanish 201, 202, 206, 301, 302; one course from Spanish 102, 341-348, 391; two semesters of Spanish conversation 251-258. Study abroad courses are recommended.

*Approval Area*

57—Spanish

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**101 Elementary Spanish (4)**

Emphasis on the basic structure of the language, core vocabulary, and pronunciation. Assigned work in the language laboratory.

**102 Elementary Spanish (3)**

Continuation of Spanish 101. Prerequisite: one year of high school Spanish or Spanish 101.

**201 Intermediate Spanish (3)**

A review of the grammatical structure of Spanish, with an emphasis on the nature of language. Attention is given to listening, speaking, reading, and writing skills, vocabulary, and culture. Prerequisite: two years of high school Spanish or Spanish 102.

**202 Literary and Cultural Readings (3)**

This course is designed to develop the reading skill and an appreciation for Spanish literature and culture. Emphasis upon contemporary literature. Permission will be granted for individual readings in academic areas of interest to the student. Prerequisite: Spanish 201 or equivalent.

**206 Spanish Culture (3)**

This course is designed to present various aspects of the way of life of the Hispanic people. Listening and speaking skills will be developed through the classroom activities. Prerequisite: Spanish 201 or equivalent.

**207 World Literature (3)**

See English 207. Students who wish this course to be listed as a Spanish course will be assigned their paper based on Spanish readings.

**208 World Literature (3)**

See English 208. Students who wish this course to be listed as a Spanish course will be assigned their paper based on Spanish readings.

**251-258 Conversation (1)**

The courses are designed to give the student practice in listening and speaking. The content of the courses will be altered each year. The class will meet two times a week; one hour of preparation per week. Prerequisite: Spanish 102.

**301 Spanish Phonology (3)**

See Linguistics 301. The principles and universals of phonology will be studied. A direct application will be made to the Spanish language.

**302 Advanced Spanish Grammar (3)**

This course is designed for those who desire a better understanding of the structure of the language. The scope of grammar will be approached systematically. Prerequisite: Spanish 201 or equivalent.

**341-348 Special Topics (3)**

The topics for these courses will be chosen from areas of literature, advanced language studies, culture or teaching methods. The offering of the course as well as the content will reflect student interest and need. Prerequisite: departmental approval.

**391 Individual Studies (3)**

Open to qualified juniors and seniors with permission from the department. See the catalog section "Individual Studies" for application procedures and policies governing individual studies.

**392 Individual Studies (3)**

Same as Spanish 391.

## Special Education

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### Teaching Minor—

(Secondary)

Education 301, 302, 306, 307/308, 309, 323, 377; one course from Education 303, 304.

*Approval Area*

81—Mental Disabilities

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## Theatre Arts

General Major— Theatre Arts 201, 202, 203, 207, 208, 340; Communication 212, 312; two courses from English 312, Theatre Arts 364, 365; one course from Theatre Arts 371, 373, 375, 377, 380; four units from Theatre Arts 11-51.

### 11 Light/Sound Design and Tech (1)

### 13 Properties Master (1)

### 15 Production Design (1)

### 17 Makeup Design and Application (1)

### 19 Costuming (1)

### 21 Voice Instruction (1)

### 23 Individual Acting (1)

### 25 Ensemble Acting (1)

### 27 Stage Movement (1)

### 29 Music Performance (1)

### 31 Directing (1)

### 33 Stage Management (1)

### 35 House Management (1)

### 51 Choral Theatre (1)

### 201 Introduction to Theatre (3)

An introduction to the history and literature of theatre, with half the course devoted to workshops in acting, lighting, set design and construction, costuming, publicity, and makeup. Designed to benefit students who will direct programs in performance of skits, plays, or pageants.

### 202 Fundamentals of Acting (3)

Studies of and practices in the art and craft of acting. Concentration, physicalization, textural analysis, text and character analysis, vocalization, control, use of space, stage geography, approaches to acting, and acting styles.

### 203 Essentials of Stage Scenery (3)

An overview of the various components of technical theatre and an introduction to the artistic skills necessary for the technical theatre artist. Course includes theoretical grounding and a practicum.

### 207 Theatre History, Greek through Neoclassical (3)

History of the theatre, from Sophocles to Goethe, in all of its dimensions (stage design, acting, conventions, professionalism, etc.). Readings in dramatic works.

### 208 Theatre History, Romantic to Present (3)

A continuation of Theatre Arts 207 with an emphasis on the rise of realism in the late nineteenth century, and the reaction in the twentieth century. Readings in dramatic works.

### 302 Advanced Acting (3)

A study of acting styles and various approaches to character development, through analysis of character and application of acting techniques. Selected scenes to be enacted. Prerequisite: Theatre Arts 202.

### 310 Directing (3)

A study of some of the problems which are part of the directing process and some of the theories which have shaped that process. Selected one-act plays to be directed and performed. Prerequisite: Theatre Arts 201.

**340 Voice Production, Pedagogy, and Performance (3)**

A study of the physiology, psychology, and acoustics of producing laryngeal sound for the stage actor and singer.

**341-348 Special Topics (3)**

Each of these courses is designed to be a special interest course utilizing individual instructor strengths, interests, and competencies. Each topic will be concerned with material not usually treated to any great extent in regularly scheduled courses.

**364 Dramatic Literature: Greeks to the Realists (3)**

A survey of dramatic literature from the Greeks to the nineteenth century realists. Special attention will be given to the "religious" drama of the fifteenth and sixteenth centuries.

**365 Modern Drama: Realists to the Present (3)**

A study of dramatic literature from Ibsen to the present. The course will trace the positivistic, principal foundation of realism, and the subsequent revolts against realism.

**371 Applied Theatre—Directing (3)**

The course content in directing will be designed for each individual in consultation with a departmental supervisor. The course requirements will be met by three enrollments, normally in three consecutive semesters. Open only to majors, teaching minors, and elementary education minor students.

**373 Applied Theatre—Acting (3)**

The course content in acting will be designed for each individual in consultation with a departmental supervisor. The course requirements will be met by three enrollments, normally in three consecutive semesters. Open only to majors, teaching minors, and elementary education minor students.

**375 Applied Theatre—Design (3)**

The course content in design will be designed for each individual in consultation with a departmental supervisor. The course requirements will be met by three enrollments, normally in three consecutive semesters. Open only to majors, teaching minors, and elementary education minor students.

**377 Applied Theatre—Technical Theatre (3)**

The course content in technical theatre will be designed for each individual in consultation with a departmental supervisor. The course requirements will be met by three enrollments, normally in three consecutive semesters. Open only to majors, teaching minors, and elementary education minor students.

**380 Playwriting Workshop (3)**

This course provides basic instruction in playwriting and a context in which students may explore their skills in dramatic scripting. Registration by permission of the department and only after a minimum of one semester of work in the workshop setting.

**391 Individual Studies (3)**

Open to qualified juniors and seniors with permission from the department. See the catalog section "Individual Studies" for application procedures and policies governing individual studies.

**392 Individual Studies (3)**

Same as Theatre Arts 391.

## Theology

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General Major— Theology 210; two courses from Theology 211, 212, 215, 216; one course from Theology 201, 202, 204; two courses in theology numbered 300 or above; four courses in theology beyond Theology 101.

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**101 Perspectives in Biblical Theology (3)**

A survey of biblical revelation in its progressive unfolding of key ideas and institutions against their cultural-historical background and within their covenant setting. Emphasis is placed on the normativity of Scripture, which reaches its fullness and fulfillment in Christ, for all academic work.



**201 History of Christian Confessions (3)**

A study of the history of the Church's response to God's Word as this response comes to expression in the significant ecclesiastical confessions. Emphasis is placed on the historical context in which the confessions, particularly those of the Reformed churches, were made.

**202 History of Western Christianity (3)**

This course attempts to create a better understanding of the origin, nature, and history of Western Christianity. Emphasis will be placed on crises that have threatened and shaped Christianity in our civilization. In tracing forces of reformation and deformation that have been operative in Western Christendom, special notice will be taken of peculiar features of Calvinistic Christianity.

**204 Calvin's Institutes (3)**

A study and discussion of the mature thought of John Calvin as found in the 1559 edition of his **Institutes of the Christian Religion**.

**210 The Scriptures (3)**

The chief objective of this course is to gain insights into the nature and role of Scripture. By way of introduction, such topics as the origin, inspiration, canonicity, translations, and basic principles of the interpretation of the Bible will be covered. By way of application, we will study specific passages and/or books of the Bible in order to demonstrate the relevance of the Bible for our day to day living.

**211 Historical Writings of the Old Testament (3)**

An in-depth study of the Pentateuch and historical writings of the Old Testament. The course will deal with the nature of the historical writings and their interpretation in terms of the history of redemption.

**212 Wisdom and Prophecy (3)**

An in-depth study of the main features of Old Testament wisdom and prophecy. An analysis will be made of the content, structure, and applications of specific Old Testament writings.

**215 New Testament Theology I—The Gospels (3)**

This course studies the message of the gospels in the light of such factors as principles for their correct interpretation, their cultural-historical context, their place in redemptive history, and theological issues which have been raised with respect to them.

**216 New Testament Theology II—The Epistles (3)**

Using Acts as a historical framework for the epistles of the New Testament, this course analyzes the contents of the letters in the light of sound hermeneutical principles, their place in redemptive history, and theological issues raised with respect to them.

**301 History of Reformed Theology (3)**

This course consists of a review of basic terms and issues in Reformed systemic theology, which in turn forms the basis for assigned readings from various Reformed theologians since Calvin. Discussion is focused on major issues and figures in the history of Reformed theology. Students may opt to write a term paper. It is advised that students take Theology 204 before enrolling in this course.

**302 Mission and Evangelism (3)**

This course develops a biblical theology of mission and evangelism, by which it tests major movements and issues in past and contemporary mission and evangelism, and to which it relates both problems and career opportunities in this field.

**305 North American Protestantism (3)**

Mainly an orientational and partly an in-depth study of outstanding characteristics of Protestantism in Canada and in the United States. Attention will be given to such movements as Puritanism, Revivalism, Social Gospel, Fundamentalism, Evangelicalism, Presbyterianism, and Reformed Christianity.

**307 Major World Religions (3)**

A study of major non-Christian religions of the world including Animism, Hinduism, Shinto, Buddhism, and Islam. Of special concern is the world and life view advanced by each religion and its manifestations in culture and society.



**309 Inter-Testamentary Studies (3)**

A study of Israel and its surrounding nations between Judah's Fall in 586 B.C. and the Fall of Jerusalem in A.D. 70. Emphasis will be placed on a study of Jewish Dispersion, Maccabees, Zealots, Pharisees, Sadducees, Apocryphal Books, and the coming of Christ in the fullness of time.

**311 Heresies and Sects (3)**

A survey of various confessional aberrations and consequent rise of different sects. Special attention will be given to the connections between all of this and the implied anthropologies and views of reality, in general, and culture and society, in particular.

**341-348 Special Topics (3)**

These courses will cover a different topic each semester and each is designed to be a special interest course utilizing individual instructor strengths, interests, and competencies. Each course will cover a topic in theology not usually treated in-depth in regularly scheduled courses.

**391 Individual Studies (3)**

Open to qualified juniors and seniors with permission from the department. See the catalog section "Individual Studies" for application procedures and policies governing individual studies.

**392 Individual Studies (3)**

Same as Theology 391.





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**PETER HAMSTRA** (1981), *Associate Director of Admissions.*

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A.B., Dordt College.

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A.B., Augustana College.

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A.B., Calvin College; A.M., University of South Dakota; Ph.D., University of the Pacific.

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A.B., Dordt College; M.B.A., University of South Dakota.

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A.B., Calvin College.

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A.B., Calvin College.

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A.B., Dordt College; M.S., St. Cloud State University.

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B.S., University of Iowa; M.A., University of Iowa; M.A., University of South Dakota.

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**VERLYN DE WIT** (1975), *Director of Development.*

A.B., Dordt College.

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**LYLE GRITTERS** (1969), *Vice President for College Advancement.*

B.S., University of South Dakota.

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A.B., Dordt College.

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A.B., Trinity Christian College.

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A.B., Calvin College; A.M., University of Michigan; M.A., Instituto de Lenguas Romanicas (Mexico); Ph.D., University of Minnesota.

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A.B., Dordt College; M.A., University of North Dakota; M.A., University of Washington;  
D.A., State University of New York at Stony Brook.
- ABRAHAM BOS** (1962), *Associate Professor of German; Associate Academic Dean.*  
A.B., Calvin College; A.M., University of South Dakota.
- KENNETH BUSSEMA** (1974), *Professor of Psychology.*  
B.S., Northern Arizona University; M.A., Northern Arizona University; Ed. D., Northern  
Arizona University.
- DAVID CAMPBELL** (1982), *Instructor in Communication.*  
A.B., Covenant College; M.A., University of Maryland.
- DOUGLAS DE BOER** (1984), *Instructor in Engineering.*  
B.S.E. University of Michigan; M.S.E., University of Michigan.
- DENNIS DE JONG** (1985), *Assistant Professor of Computer Science.*  
A.B., Dordt College; M.S., Colorado State University.
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B.S.C., Federal University of Pernambuco State, Recife, Brazil; Ph.D., University of Manchester, England.
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A.B., Calvin College; M.M., Eastman School of Music; D.M.A., University of Iowa.
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A.B., Calvin College; M.S., Montana State University; Ed.D., Montana State University.
- JOHN C. VANDER STELT** (1968), *Professor of Theology and Philosophy*.  
A.B., Calvin College; B.D., Free University of Amsterdam; Th.D., Free University of Amsterdam.
- DELMAR VANDER ZEE** (1969), *Professor of Biology*.  
A.B., Dordt College; M.A., Western Michigan University; M.S., Iowa State University; Ph.D., Washington State University.
- JOHN VAN DYK** (1966), *Professor of Philosophy*.  
A.B., Calvin College; A.M., University of Michigan; Ph.D., Cornell University.
- LOUIS Y. VAN DYKE** (1963), *Professor of History*.  
A.B., Calvin College; M.A., University of Washington; D.A.T., University of North Dakota.
- DOREDA ROOS VAN GAALEN** (1985), *Instructor in Education*.  
A.B., Dordt College; M.A., Washington State University.



**NOLAN VAN GAALEN** (1983), *Instructor in Engineering.*

B.S., Calvin College and University of Michigan; B.S.E., University of Michigan; M.S., University of Alberta.

**LORNA VAN GILST** (1987), *Instructor in English.*

A.B., Dordt College; M.A., University of the Pacific.

**MARION VAN SOELEN** (1977), *Associate Professor of Physical Education; Dean of Students.*

B.S., University of Iowa; M.A., University of Iowa; M.A., University of South Dakota.

**CHARLES VEENSTRA** (1976), *Professor of Communication.*

A.B., Dordt College; M.A., Northern Illinois University; Ph.D., University of Nebraska.

**ARNOLD VELDKAMP** (1971), *Associate Professor of Mathematics.*

A.B., Calvin College; M.Ed., Western Washington State; M.A., University of Illinois.

**TOM VISKER** (1978), *Associate Professor of Physical Education.*

A.B., Calvin College; M.A., Western Michigan University; P.E.D., Indiana University.

**JOHN VISSER** (1976), *Associate Professor of Business Administration.*

B.S., University of Illinois; M.B.A., DePaul University; Ph.D., University of Alabama.

**RONALD VOS** (1985), *Instructor in Agriculture; Manager of the Agriculture Stewardship Center.*

A.B., Dordt College; M.A., Governors State University.

**HELEN WESTRA** (1984), *Associate Professor of English.*

A.B., Calvin College; M.A., University of Michigan; Ph.D., University of Notre Dame.

**MARVIN WIELARD** (1985), *Assistant Professor of Computer Science.*

A.B., Calvin College; M.A., Louisiana State University.

**JOHN ZWART** (1983), *Assistant Professor of Physics.*

A.B., Calvin College; M.S., Michigan State University; Ph.D., Michigan State University.

## PART-TIME INSTRUCTORS

**PAM DE HAAN**, *Music.*

**ANN DORR**, *Music.*

**CORINNE HUISMAN**, *Spanish.*

**JEAN PATRICK**, *English.*

**ANDREA STRUYK**, *Education.*

**JUNE WEAVER**, *Business.*

**MARY LOU WIELENGA**, *Music.*

**REBECCA WOODWARD**, *Business.*

# DEGREES GRANTED 1987

## Bachelor of Arts

### \*Bachelor of Science in Engineering

### \*\*Bachelor of Social Work

\*\*Beth Diann Aardema, Lakeside Park, Kentucky  
 \*Roger A. Addink, Sioux Center, Iowa  
 Leila Jeanne Alberda, Sioux Center, Iowa  
 Glenda Lynn Annema, Sedro-Woolley, Washington  
 Caroline Rose Antonides, Jordan Station, Ontario  
 \*Doug Antonides, Penticton, British Columbia  
 John Henry Atsma, Duncan, British Columbia  
 Michael Baartman, Rock Valley, Iowa  
 Janet Sue Baker, Edgerton, Minnesota  
 Robert Henry Balt, Sanborn, Iowa  
 Rodney Berg, Chatham, Ontario  
 \*\*Marlae Beukelman, Otley, Iowa  
 Laurie Ann Bleeker, Grand Rapids, Michigan  
 Gregg R. Boer, Sibley, Iowa  
 Ron Boer, Sioux Center, Iowa  
 Brenda Ellen Boersma, Chino, California  
 Jeff Bokma, Shubenacadie, Nova Scotia  
 Pete Boonstra, Maple Ridge, British Columbia  
 Caroline Bos, Barnwell, Alberta  
 Tony Bosch, Rosthern, Saskatchewan  
 Lana Rae Bosma, Sibley, Iowa  
 Dave Boxum, Lynden, Washington  
 Mark Gary Branderhorst, Pella, Iowa  
 Julie K. Broekhuis, Sioux Falls, South Dakota  
 Cathy (VanderWel) Brouwer, Janesville, Wisconsin  
 Sharon Lynn Brouwer, Edgerton, Minnesota  
 Wilbur J. Brouwer, Escondido, California  
 Grace Bruinius, Chatham, Ontario  
 Dan Bruinooge, Weyburn, Saskatchewan  
 Michele Ann Bulthuis, Renville, Minnesota  
 Jeffrey Lee Burghgraef, Sheboygan, Wisconsin  
 Theresa Burghgraef, Oakdale, California  
 James A. Buss, Everett, Washington  
 Randall Jay Christians, Sioux Center, Iowa  
 Letitia Marie Collins, Pickering, Ontario  
 Carmen Jean Dahlenburg, Hills, Minnesota  
 Jeff Dahm, Pella, Iowa  
 Ann Elizabeth De Blaey, Oostburg, Wisconsin  
 Constance DeBoer, Littleton, Colorado  
 Jeff De Boer, Edgerton, Minnesota  
 Ronald Bradley De Boer, Chatham, Ontario  
 \*\*Laura Jean deBoom, Ireton, Iowa  
 Gregory Alan De Haan, Hollandale, Minnesota  
 Sandra De Jager, Jefferson, Oregon  
 Anna Maria De Jong, Pella, Iowa  
 Donna Rae De Jong, Lansing, Illinois  
 Elsie de Jong, San Marcos, California  
 Julie De Jong, De Motte, Indiana  
 Trudy Marie Den Hartog, Walworth, Wisconsin

Byron De Stigter, Sioux Center, Iowa  
 Gregory Glenn De Stigter, Sioux Center, Iowa  
 Kenneth Gerald DeVries, Marion, New York  
 Phil Lee De Vries, Marne, Michigan  
 Brenda J. DeWit, Sioux Center, Iowa  
 Lee Diedrich, Conrad, Montana  
 Dena M. Dykstra, Lethbridge, Alberta  
 Rick Ebberts, Sheboygan, Wisconsin  
 Lori De Groot Eekhoff, Rose Hill, Iowa  
 Ronda Lee Engelsman, Denver, Colorado  
 Beth Joann Evink, Morris, Minnesota  
 \*\*John Fisher, Waupun, Wisconsin  
 Eloise Ann Folkerts, Littleton, Colorado  
 Mark Geertsma, Randolph, Wisconsin  
 \*Henry Greene, Annapolis, Maryland  
 Loren Dean Gritters, Hull, Iowa  
 Christa Groen, Ripon, California  
 Ed Groot, Smithers, British Columbia  
 \*Joel Lloyd Gross, Sutton, Nebraska  
 Christine Marie Guthmiller, Menno, South Dakota  
 Janet Ranae Hamming, Marysville, Washington  
 \*\*Eva Hansum, Platte, South Dakota  
 Jana Hekman, Ripon, California  
 Nancy Sue Hoffmann, Oostburg, Wisconsin  
 Mark A. Hollander, Lynden, Washington  
 \*\*Crystal Renee Holtrop, Sheldon, Iowa  
 Allen Wayne Horstman, Sioux Center, Iowa  
 Gregory Alan Horstman, Sanborn, Iowa  
 \*Steven Horstman, Sioux Center, Iowa  
 \*Joseph B. Huber, Ashley, North Dakota  
 Troy Hugen, Pella, Iowa  
 Timothy Huisken, Edgerton, Minnesota  
 Vonda Kaye Isakson, Puyallup, Washington  
 Randall Jay Jacobsma, Orange City, Iowa  
 Deloy Paul Johnson, Ackley, Iowa  
 Sandra Faye Faber Johnson, Inwood, Iowa  
 Karl David Kaemingk, Denver Colorado  
 Shirley Lynn Kaemingk, Orange City, Iowa  
 Lisa Kamlade, Jefferson, Oregon  
 Kenton Kamp, Guelph, Ontario  
 Mark Kelderman, Inwood, Iowa  
 Alleen Ranae Klein, Bellflower, California  
 Richard Alex Koele, Sioux Center, Iowa  
 Kevin Lee Kok, Corsica, South Dakota  
 Brian M. Konynenbelt, Lethbridge, Alberta  
 Bryan Kooi, Sioux Center, Iowa  
 Paul Alan Kooima, Sussex, New Jersey  
 Audrey Margaret Kraayeveld, Delavan, Wisconsin  
 Sheila Lynette Krediet, Sioux City, Iowa



Wayne Alan Kroon, Sheldon, Iowa  
 Rodney W. Krosschell, Edgerton, Minnesota  
 LuAnn Joy Kuhl, Hadley, Minnesota  
 \*\*Dennis L. Kuik, Edgerton, Minnesota  
 \*Henry Laarakker, Barrhead, Alberta  
 Mark Allen Limberg, Woden, Iowa  
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 John Marcus, San Ysidro, California  
 Melanie Ann Masters, Alexander City, Alabama  
 Tena Marie Meinders, Redlands, California  
 Mary Elaine Meyer, Sunnyside, Washington  
 Teresa Meyer, Guelph, Ontario  
 Randy Meyer, Raymond, Minnesota  
 Sandra Meyerink, Dunnville, Ontario  
 Dennis Michels, Adrian, Minnesota  
 Charlotte Beth Miller, Sheldon, Iowa  
 Randy Moret, Ripon, California  
 Steven Ray Morphew, Sioux Center, Iowa  
 Nancy Mouw, Ireton, Iowa  
 Charles Alexander Muether, Stony Brook, New York  
 Heidi Jane Nibbelink, Wyoming, Michigan  
 Mary Nibbelink, Sioux Center, Iowa  
 Rebecca Fay Niemeyer, Alvord, Iowa  
 Joan Patricia Noordhof, Lacombe, Alberta  
 \*Kenneth Nydam, Chatham, Ontario  
 Randall Gene Obbink, Orange City, Iowa  
 Chris Doug Oberreuter, Danbury, Iowa  
 Marietta (Marti) Oskam, Goderich, Ontario  
 Paul Otto, Santa Clara, California  
 Scott Evan Pennings, Orange City, Iowa  
 Diane Plantinga, Brandon, Manitoba  
 Darlene Jean Post, Willmar, Minnesota  
 Brendan Postman, Nobleford, Alberta  
 Valerie Ann Prium, Lansing, Illinois  
 Renee Renkema, Hull, Iowa  
 Scott L. Rhoda, Sioux Center, Iowa  
 Robert Ribbens, Sheldon, Iowa  
 Debra Lynn Rodriguez, Rock Valley, Iowa  
 Arnola (Schaap) Roos, Ackley, Iowa  
 Derick Roos, Granger, Washington  
 Lisa Kaye Ruisch, Ireton, Iowa  
 Gregory Ruter, Denver, Colorado  
 Karen Renee Schemper, Denver, Colorado  
 Vaughn Schiebout, Barons, Alberta  
 Lisa J. Segaar, Ripon, California  
 Georgia Lynn Sjaardema, Reasnor, Iowa  
 Christine Skubal, Ainsworth, Iowa  
 \*\*Jacqueline Smit, Brandon, Manitoba  
 Jennifer Smit, Beecher, Illinois  
 Carol Lynn Spronk, Edgerton, Minnesota  
 Calvin Andrew Struyk, Sioux Center, Iowa  
 John Summers, West Des Moines, Iowa  
 Lisa A. Sybesma, Platte, South Dakota  
 Don Talstra, Terrace, British Columbia  
 Howard John Te Beest, Waupun, Wisconsin  
 Donald Dale Ter Haar, Rock Valley, Iowa  
 Russ Theune, Sheboygan, Wisconsin  
 Marion J. Tilstra, Smithville, Ontario  
 Judith A. (VanDyk) VanBerkel, Orange City, Iowa  
 Steven Kent Vande Griend, Hull, Iowa  
 Amy Marie Van Den Berg, Waupun, Wisconsin  
 Kathy Vanden Berg, Sheldon, Iowa  
 Lawrence Van Den Berg, Waupun, Wisconsin  
 Kurt Vanden Bosch, Ripon, California  
 Joel E. Vanden Heuvel, Byron Center, Michigan  
 Stephen Vander Ark, Randolph, Wisconsin  
 Patricia Vander Griend, Sheldon, Iowa  
 Kristi Lynn Vander Kooi, Woodland Park, Colorado  
 \*\*Jill C. Vander Maten, Onalaska, Wisconsin  
 Scott Vander Maten, Edgerton, Minnesota  
 Annette Vandermeulen, Edmonton, Alberta  
 Preston Wade Vander Plaats, Ogilvie, Minnesota  
 Debra Therese Vander Schaaf, Sioux Center, Iowa  
 David Albert Corian Vander Stelt, Sioux Center, Iowa  
 Laura Vander Weerd, Sully, Iowa  
 Alison Vander Zee, South Holland, Illinois  
 Gary Lee Vander Zee, Sioux Falls, South Dakota  
 Randall Jay Van Dyke, Manhattan, Montana  
 Lorelei R. Van Engen, Doon, Iowa  
 \*Michael G. Van Grouw, Orange City, Iowa  
 Amy Lynn Van Gunst, New Era, Michigan  
 Denise Renee Van Hal, Pella, Iowa  
 Mary Geels Van Hulzen, Edgerton, Minnesota  
 Jacqueline Van Leeuwen, Chino, California  
 Randall Dean Van Maanen, Doon, Iowa  
 Cynthia Faye Van Sant, Sully, Iowa  
 Paul Everett Van Stelle, Tucson, Arizona  
 Karen Renee Van Veldhuizen, New Sharon, Iowa  
 Dale Robert Van Voorst, Sioux Center, Iowa  
 David Van Voorst, Sioux Center, Iowa  
 Laura Van Zytveld, Aurora, Colorado  
 Jim Veenstra, Orange City, Iowa  
 Mark-Philip Venema, Burlington, Ontario  
 Sandra Lynn Vis, Chandler, Minnesota  
 Cathy Visscher, Wallenstein, Ontario  
 Mark Stephen Visser, Orange City, Iowa  
 \*Kent Vos, Ripon, California  
 Connie Cheryl Weeda, Turlock, California  
 Teresa Kay Weidenaar, Manhattan, Montana  
 John Weiler, Le Mars, Iowa  
 Susan K. Werkhoven, Monroe, Washington  
 Marc J. Wielard, Sioux Center, Iowa  
 Doug Wiersma, Chatham, Ontario  
 Judith Ann Wigboldy, Ontario, California  
 Elizabeth Jane Wilgenburg, Escondido, California  
 Bruce Alexander Wind, Loveland, Colorado  
 Beth Evonne Wissink, Sioux Center, Iowa  
 Myrna Ruth Wissink, Modesto, California  
 Kenton Lee Witt, Alamosa, Colorado  
 Doralene Wynia, Ottawa, Ontario  
 Peter Zwiers, Prince George, British Columbia

## Associate of Arts

Rick Altena, Sioux Center, Iowa  
 Tonnie Bekius, Pease, Minnesota  
 Amy Joy Bouwer, Grand Rapids, Michigan  
 Sharon Burggraaf, Rock Valley, Iowa  
 Jane Dahm, Pella, Iowa  
 Karen De Boer, Chatham, Ontario  
 Owen DeBoer, Brantford, Ontario  
 Cindy de Boom, Ireton, Iowa  
 Kimberly June De Vries, Lynnvile, Iowa  
 Jacqueline Dykstra, Sumas, Washington  
 Bryon John Eekhoff, Kanawha, Iowa  
 Pamela Eisma, Ireton, Iowa  
 Linda Luree Folkerts, Littleton, Colorado  
 Arnold R. Folkertsma, Everson, Washington  
 Patricia Goodyk, Harvey, Iowa  
 Lisa Gritters, Sioux Center, Iowa  
 Steve Habben, Ashton, Iowa  
 Janet Hiemstra, Darien, Wisconsin  
 Ryan Todd Holtrop, Sheldon, Iowa  
 Renee Houk, Pella, Iowa  
 Karen Kaemingh, Emo, Ontario  
 Vonda Kooima, Loveland, Colorado  
 Kim Kooistra, Sioux Center, Iowa  
 David Lefers, Corsica, South Dakota  
 Annserita Lyon, Hanford, California

Brent Meyer, Clara City, Minnesota  
 David Moss, Sioux Center, Iowa  
 Darin Piers, Ripon, California  
 Elaine Prins, Foremost, Alberta  
 Delmer Allen Scholten, Inwood, Iowa  
 Dana Sitzmann, Kingsley, Iowa  
 Glenda Timmermans, Sunnyside, Washington  
 John Top, Everson, Washington  
 Calvin Vaags, Dugald, Manitoba  
 Gordon VandeBurgt, Dewdney, British Columbia  
 Lavonne Vander Griend, Sheldon, Iowa  
 Verna Vander Weerd, Sully, Iowa  
 Stephanie Vander Wekken, Clive, Alberta  
 Keith Van Dyk, Enumclaw, Washington  
 Myrna Van Kooten, Sully, Iowa  
 Sandy Van Soelen, Sully, Iowa  
 Sheila Van Tol, Sanborn, Iowa  
 Trudi Veurink, Harrison, South Dakota  
 Albert Visscher, Wallenstein, Ontario  
 Marlin Vollink, Ireton, Iowa  
 Donna Westra, Edmonton, Alberta  
 Lisa Westra, Lynden, Washington  
 Ellen Jane Wiersma, Waupun, Wisconsin  
 Sylvia Wolters, Grandview, Washington

## Enrollment 1986-1987

	Men	Women	Total
Freshmen	157	162	319
Sophomores	121	115	236
Juniors	97	89	186
Seniors	108	105	213
Special	<u>10</u>	<u>7</u>	<u>17</u>
TOTAL	493	478	971



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Florida . . . . .	7
Idaho . . . . .	1
Illinois . . . . .	26
Indiana . . . . .	7
Iowa . . . . .	400
Kansas . . . . .	1
Kentucky . . . . .	1
Maryland . . . . .	1
Massachusetts . . . . .	1
Michigan . . . . .	35
Minnesota . . . . .	91
Missouri . . . . .	2
Montana . . . . .	11
Nebraska . . . . .	6
New Hampshire . . . . .	2
New Jersey . . . . .	5
New York . . . . .	4
North Dakota . . . . .	2
Ohio . . . . .	1
Oregon . . . . .	7
South Dakota . . . . .	37
Texas . . . . .	1
Vermont . . . . .	2
Virginia . . . . .	1
Washington . . . . .	48
Wisconsin . . . . .	45
Alberta . . . . .	24
British Columbia . . . . .	27
Manitoba . . . . .	7
Nova Scotia . . . . .	1
Ontario . . . . .	57
Saskatchewan . . . . .	3
Nigeria . . . . .	1
The Netherlands . . . . .	1

TOTAL

971

# THE ACADEMIC CALENDAR

1987-88	1988-89	Day	Activity
Aug. 26	Aug. 31	Wednesday	Orientation - Registration
Aug. 27	Sept. 1	Thursday	Convocation - 8:00 A.M.
Aug. 27	Sept. 1	Thursday	Classes begin - 9:00 A.M.
Oct. 1,2	Oct. 6,7	Thurs.-Fri.	Reading Days - Tri-State Institute - No classes
Oct. 16	Oct. 21	Friday	End of first set of half-courses
Oct. 19	Oct. 24	Monday	Beginning of second set of half-courses
Nov. 25	Nov. 23	Wednesday	Thanksgiving Recess - 12:00 Noon
Dec. 1	Nov. 29	Tuesday	Classes resume - 8:00 A.M.
Dec. 14	Dec. 16	Monday *(Friday)	Review Day - A.M. *(A.M. & P.M.)
Dec. 14	Dec. 17	Monday (Saturday)	Testing - P.M. (A.M. & P.M.)
Dec. 15	Dec. 19	Tuesday (Monday)	Testing - A.M. & P.M. (P.M.)
Dec. 16, 17	Dec. 20, 21	Wednesday, Thursday (Tuesday, Wednesday)	Testing - A.M. & P.M. (A.M. & P.M.)
Jan. 13	Jan. 18	Wednesday	Second Semester begins - 8:00 A.M.
Mar. 1	Mar. 7	Tuesday	End of first set of half-courses
Mar. 2	Mar. 8	Wednesday	Beginning of second set of half-courses
Mar. 17	Mar. 23	Thursday	Spring Vacation - 12:00 Noon
Mar. 29	Apr. 4	Tuesday	Classes resume - 8:00 A.M.
May 2	May 8	Monday	Review Day - A.M.
May 2	May 8	Monday	Testing - P.M.
May 3-5	May 9-11	Tues.-Thurs.	Testing - A.M. and P.M.
May 6	May 12	Friday	Commencement - 10:00 A.M.

\*Information in parenthesis applies to the 1988-89 school year.





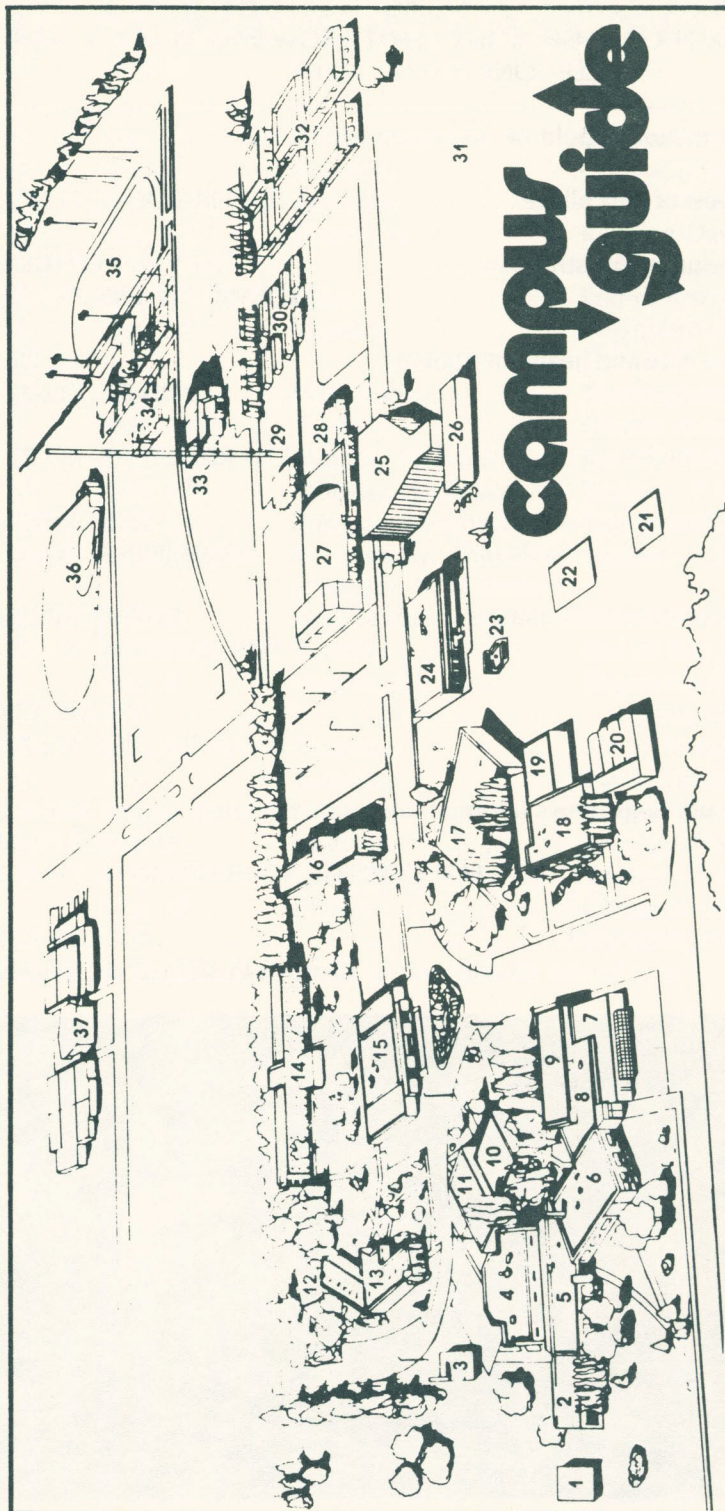
ALL CORRESPONDENCE SHOULD BE MAILED TO  
DORDT COLLEGE, SIOUX CENTER, IOWA 51250  
TELEPHONE 712-722-3771

Requests for specific information should be addressed as follows:

- General policies and interest of the college . . . . . THE PRESIDENT, 712-722-6000
- Academic matters; curriculum and instruction . . . . . THE VICE PRESIDENT FOR  
ACADEMIC AFFAIRS, 712-722-6030
- Student affairs; personal welfare and health of students . . . . . THE DEAN OF  
STUDENTS, 712-722-6070
- Transcripts of credits; grade points . . . . . THE REGISTRAR, 712-722-6030
- Admissions; catalogs; application forms . . . . . THE DIRECTOR OF  
ADMISSIONS, 712-722-6080
- Payments of accounts; general business matters . . . . . THE VICE PRESIDENT  
FOR BUSINESS, 712-722-6010
- Financial aid; scholarships; grants . . . . . THE DIRECTOR OF  
FINANCIAL AID, 712-722-6080
- Publicity; gifts; annuities; offerings; news information; estate planning; alumni affairs; special  
subscribers; church relations . . . . . THE VICE PRESIDENT  
FOR COLLEGE ADVANCEMENT, 712-722-6020
- Student advising and career placement . . . . . THE DIRECTOR OF  
CAREER PLACEMENT, 712-722-6070



# THE DORDT COLLEGE CAMPUS



1. College Guest House
2. Faculty Office Complex
3. Central Heating Plant
4. Classroom Building C (Rooms 155-217)
5. Classroom Building B (Rooms 120-125)
6. Classroom Building A (Rooms 107-118)
7. Computer Science Learning Center
8. Business Office
9. Theatre Arts Center
10. Academic Administration Building
11. Art Building
12. President's Home
13. West Hall
14. North Hall
15. Commons (Dining Hall)
16. East Hall
17. Library
18. Science Building
19. Engineering Building
20. Campus Greenhouse
21. Astronomy Observatory
22. Prairie Research Plot
23. Outdoor Retreat Center
24. Student Union Building (SUB)
25. Chapel
26. Music Building
27. Physical Education Building (Gymnasium)
28. Campus Maintenance Center
29. Communications Center (Radio Station KDCR)
30. Student Housing — Mobile Homes
31. Intramural Athletic Field
32. East Campus Apartments
33. Indoor Swimming Pool
34. Tennis Courts
35. Municipal Stadium
36. Baseball Field
37. TePoske Theatre

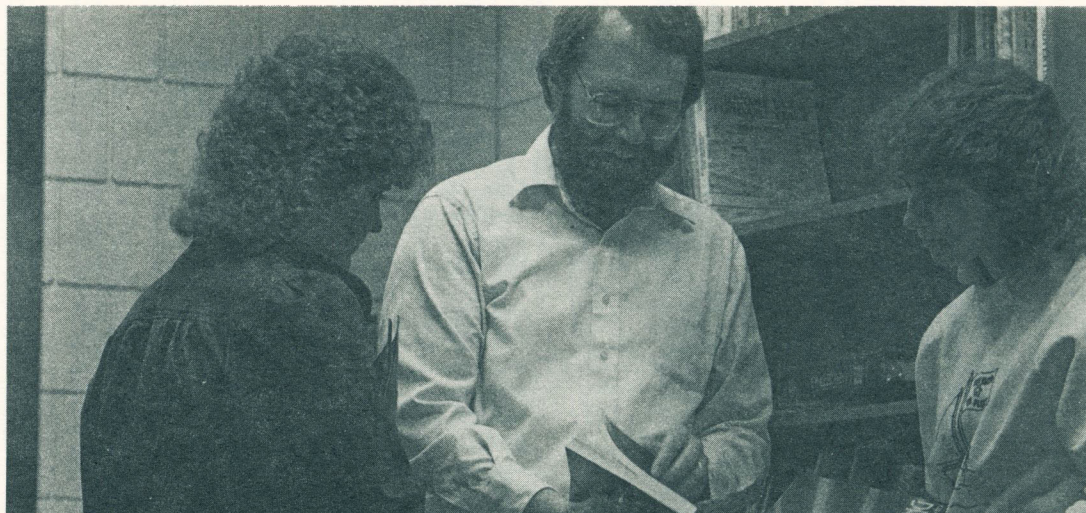
Note: The Dordt College Agriculture Stewardship Center is located two miles north of Sioux Center on Highway 75.



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**DORDT COLLEGE**

Sioux Center, Iowa

